

Ref: AIL/DHJ/NEO/ENV/2024-25/007  
Date: 21.05.2025

ID: 41201

To,  
Deputy Director General of Forests  
Integrated Regional Office (IRO)  
Ministry of Environment, Forest & Climate Change (MoEF&CC)  
KARMAYOGI BHAWAN, Block-3, F-2 Wing, 5th Floor,  
Near CH-3 Circle, Sector - 10A, Gandhinagar - 382010

Subject: Half Yearly Environment Clearance conditions compliance report for the period of October-2024 to March-2025.

- Reference:-
- 1) Environment Clearance letter no SEIAA/GUJ/EC/5(f)/173/2013 dated 05/07/2013
  - 2) Environment Clearance amendment Letter No. SEIAA/GUJ/EC/5(f)/547/2019 dated 10/04/2019
  - 3) Environment Clearance Extension and amendment Letter No. SEIAA/GUJ/EC/5(f)/1639/2020 dated 31/12/2020
  - 4) Environment Clearance Expansion Letter No. SEIAA/GUJ/EC/5(f)/2630/2022 dated 07/11/2022
  - 5) Environment Clearance Amendment Letter No. SEIAA/GUJ/EC/5(f)/255/2024 dated 29/02/2024

Respected Sir,

In reference to the above mentioned subject, Unit is enclosing herewith the compliance Report for the period of October-2024 to March-2025 in respect to the above mentioned references of Environment Clearance and its Amendments for Expansion of Synthetic organic chemicals industry (dyes & dye intermediates) manufacturing unit located at Plot No. Z/103/H, Dahej SEZ-II, Tal. Vagra, Dist. Bharuch, Gujarat.

The unit has obtained and implemented below mentioned ECs and submitted condition wise compliance for the same.

- 1) Environment Clearance letter no SEIAA/GUJ/EC/5(f)/173/2013 dated 05/07/2013.
- 2) Environment Clearance Expansion Letter No. SEIAA/GUJ/EC/5(f)/2630/2022 dated 07/11/2022.
- 3) Environment Clearance Amendment Letter No. SEIAA/GUJ/EC/5(f)/255/2024 dated 29/02/2024.

Thanking You  
Yours faithfully,

For Aarti Industries Limited.

  
Authorized Signatory



Encl: EC Compliance with Annexures.

**COPY TO:**

1. The Member Secretary, GPCB, Gandhinagar
2. Email to The Regional Director, CPCB, Vadodara
3. Email to SEIAA, Gujarat
4. Uploaded in MOEF&CC(Parivesh) Portal

**www.aarti-industries.com | CIN : L24110GJ1984PLC007301**

**Regd. Office :** Plot No. 801,801/23, IIrd Phase, GIDC Vapi-396195, Dist - Valsad. INDIA. T : 0260-2400366

**Factory :** Plot No. Z/103/H, Dahej Sez II, Tal. Vagra, Dist. Bharuch, Gujarat - 392130. INDIA.

**Admin. Office :** 71, Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400080, INDIA.

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**Compliance report of Environmental Clearance File No. SEIAA/GUJ/EC/5(f)/2630/2022 on 07/11/2022**

**For period October-2024 to March-2025**

	Name of product / by-product	Capacity in MT/ Annum	As on Actual MT/Month	Remarks																																								
A	Ethylation and Propoylation Products	54000	<div>Compiled.<table><thead><tr><th colspan="5">Production (MT)</th></tr><tr><th>Month</th><th>2-Methyl, 6-Ethyl Aniline (MEA)</th><th>2,6 - Diethyl Aniline (DEA)</th><th>3-Methyl 2-6 Diethyl Aniline (DEMA)</th><th>Total Ethylation and Propoylation Products</th></tr></thead><tbody><tr><td>October 2024</td><td>1299</td><td>0</td><td>0</td><td>1299</td></tr><tr><td>November 2024</td><td>1293</td><td>0</td><td>0</td><td>1293</td></tr><tr><td>December 2024</td><td>1131</td><td>0</td><td>367</td><td>1131</td></tr><tr><td>January 2025</td><td>699</td><td>199.5</td><td>32</td><td>699</td></tr><tr><td>February 2024</td><td>1980.48</td><td>13</td><td>0</td><td>1980.48</td></tr><tr><td>March 2025</td><td>1495</td><td>163</td><td>0</td><td>1495</td></tr></tbody></table></div> <div>Remarks:- Unit have applied for CCA amendment for 2-Ethyl Aniline (OEA) as inward no-280463 dated 12.05.2024 for the</div>	Production (MT)					Month	2-Methyl, 6-Ethyl Aniline (MEA)	2,6 - Diethyl Aniline (DEA)	3-Methyl 2-6 Diethyl Aniline (DEMA)	Total Ethylation and Propoylation Products	October 2024	1299	0	0	1299	November 2024	1293	0	0	1293	December 2024	1131	0	367	1131	January 2025	699	199.5	32	699	February 2024	1980.48	13	0	1980.48	March 2025	1495	163	0	1495	Latest CCA copy is attached as <a href="#">Annexure-A</a> .  The unit is having a valid EC for same attached as <a href="#">Annexure-B</a>  EC Extension & amendment No.SEIAA/GUJ/EC/5 (f)/1639/2020 dated 31/12/2020 as <a href="#">Annexure-C</a> and <b>EC Expansion No.SEIAA/GUJ/EC/5(f)/2630/2022</b> as <a href="#">Annexure-D</a>
	Production (MT)																																											
	Month			2-Methyl, 6-Ethyl Aniline (MEA)	2,6 - Diethyl Aniline (DEA)	3-Methyl 2-6 Diethyl Aniline (DEMA)	Total Ethylation and Propoylation Products																																					
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	4-Methyl 2-6 Diethyl Aniline																																											
Isopropyl Aniline and 2, 6 Diisopropyl Aniline																																												
2- Methyl-6-Isopropyl Aniline																																												
4- Methyl 2,-6 Diisopropyl Aniline And/or																																												
2- Ethyl Aniline (OEA) And/Or																																												
3,5- Diethyl Toluene 2,6- Diamine (DETDA) and 3,5-Diethyl Toluene 2.4- Diamine (DETDA) And/Or																																												
3-chloro-2,6-diethylaniline i (CDEA) & 3-chloro-2-Ethylaniline (CEA)																																												

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			<p><b>addition of the product 2-Ethyl Aniline (Ortho Ethyl Aniline) from Group A Sr. No.8 @ 1500 MT/Month and Unit will manufacture the above-mentioned product 2-Ethyl Aniline (Ortho Ethyl Aniline) in the existing plant only without any additional infrastructure.</b></p> <p>The unit has converted partial EC to CCA. Also unit has not produced Isopropyl Aniline and 2, 6 Diisopropyl Aniline, 2- Methyl-6-Isopropyl Aniline and 4- Methyl 2,-6 Di-isopropyl Anilin, 2,6 - Diethyl Aniline (DEA) and 2- Ethyl Aniline (OEA).</p>	
<b>B</b>	Ortho Toluidine/para Toluidine/[Meta Toluidine Distillation (Physical Separation)	6000	<p><b>Complied</b></p> <p>Presently the unit is not doing the Physical separation. The unit has converted partial EC to CCA for phase-1.</p>	CCA for this group was not taken. CCA copy is attached as <a href="#">Annexure-A.</a>
<b>2</b>	<b>Hydrogenated Products</b>	0	<p><b>Complied</b></p> <p>Presently the unit is not doing the Hydrogenation process. The unit has converted partial EC to CCA for phase-1.</p>	<p>Presently the unit is not doing the Hydrogenation process.</p> <p>The unit has converted partial EC to CCA. CCA for this group was not taken. CCA copy is attached as <a href="#">Annexure-A.</a></p>
	Ortho Toluidine			
	Chloro Aniline			
	DiChloro Aniline			
	TriChloroAniline			
	Ortho Phenylene Diamine			
	Phenylene Diamine			
	3,4 Diamino Diphenyl Ether			
	4,4 Diamino Diphenyl Ether			
<b>3</b>	<b>Chlorination Products</b>	0	<b>Complied</b>	
	Monochloro Benzene			

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	Ortho Dichlorobenzene		Presently the unit is not doing the Chlorination process. The unit has converted partial EC to CCA for phase-1.	
	Para Dichloro Benzene			
Total			Average production of <b>1316.25 MT/Month</b> in the compliance period (October-2024 to March-2025).	Production is well within the limit. CCA converted to Ethylation & Propylation Group for <b>1500MT/ Month</b> only.

Sr. No.	EC conditions	Compliance status						
A.1 SPECIFIC CONDITIONS:								
1	Unil shall install CEMS [Continuous Emission Monitoring System) in line to CPCB directions to all SPCB vide letter no B-29016/04/05PC-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server which can be assessable by the GPCB/CPCB on real time basis. (For Small/Large Medium (Red Category) & Whichever (Air emission & Effluent discharge) is applicable).	<b>Complied</b>  We have installed OCEMS to our flue gas stack of boilers and magnetic flow meter at ETP inlet and outlet and also installed PTZ camera at ETP outlet as per CPCB guideline. Regarding details are tabulated as below:						
		Sr.No.	Station Name	Parameter name	Brand name	Make and model of Analyzer	Serial No. of the Analyzer	Measurement Principle of the Analyzer
		1	Stack_1_Boiler 14 TPH	PM	Forbes Marshall	DCEM 2100	16128	opacity dust Monitoring
				SO2	Forbes Marshall	FMGCEm40xx	FMGCE M40XX-19054	Infrared absorption technology



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				NOx	Forbes Marshall	FMGCEm4 0xx	FMGCE M40XX-19054	Infrared absorption technology
		2	Stack_2_Boiler 67 TPH	PM	Forbes Marshall	DCEM 2100	19049	Opacity dust Monitoring
				SO2	Forbes Marshall	GCEM40xx Series Article no FMGCEM4 080	FMGCE M4080-18103	Infrared Absorption Analyser-In-Situ type (NDIR)
				NOx	Forbes Marshall	GCEM40xx Series Article no FMGCEM4 080	FMGCE M4080-18103	Infrared Absorption Analyser-In-Situ type (NDIR)
		3	ETP	Flow	Rosemoun t	8732FMT1 A1K1M4	6208645	electromagneti c induction
		4	Camera Location	ETP Outlet	Shreedhar Instrumen t (SECURUS)	SS0804ASL SS-NE12XS -M2	Static IP Address: 27.54.17 4.164	Grade IP (Internet Protocol) cameras having PAN, Tilt, Zoom (PTZ)
2	Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines LDAR Logbooks shall be maintained	<b>Complied</b>  Unit has implemented the LDAR program during plant operation as per CPCB guidelines. Unit ensure the below listed conditions for LDAR program,						

1. Approaches for controlling fugitive emissions from equipment leaks shall have proper selection, installation and maintenance of non-leaking or leak-tight equipment. Following initial testing after commissioning, the monitoring for leak detection is to be carried out as a permanent on-going Leak Detection and Repair (LDAR) programme. Finally detected leaks are to be repaired within an allowable time frame.
2. Components that shall be covered under LDAR programme include (i) Block Valves; (ii) Control Valve; (iii) Pump seals; (iv) Compressor seals; (v) Pressure Relief Valves; (vi) Flanges - Heat Exchangers; (vii) Flanges - Pipings; (viii) Connector - Pipings; (ix) Open ended lines; (x) Sampling connections. Equipment and line sizes more than 1.875 cm or 3/4 inch are to be covered.
3. Monitoring Requirements and Repair Schedule: Following frequency of monitoring of leaks and schedule for repair of leaks shall be followed:

Components	Frequency of monitoring	Repair Schedule
	Quarterly (semiannual after two consecutive periods with < 2% leaks and annual after 5 periods with 2% leaks)	Repair will be started within 5 working days and shall be completed within 15 working days after detection of leak for general hydrocarbons.
Pump Seals	Quarterly	In the case of benzene, the leak shall be attended immediately for repair.

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		Compressor Seals	Quarterly	
		Pressure Relief Devices	Quarterly	
		Pressure Relief Devices (after venting)	Within 24 hours	
		Heat Exchanger	Quarterly	
		Process drains	Annually	
		Components that are difficult to monitor	Annually	
		Pumps seals with visible liquids dripping	Immediately	Immediately
		Any components with visible leaks	Immediately	Immediately
		Any components after repair/replacement	Within Five days	-
		<p>1. In addition, any component observed to be leaking by sight, sound or smell, regardless of concentration (liquid dripping, visible vapor leak) or presence of bubbles using soap solution should be considered as a leak.</p>		

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	<ol style="list-style-type: none"><li>2. The percentage leaking components should not be more than 2% for any group of components, monitored excluding pumps/compressors. In case of pumps/compressors, it should be less than 10% of the total number of pumps/compressors or three pumps and compressors, whichever is greater.</li><li>3. Pressure relief and blowdown systems should discharge to a vapor collection and recovery system or to flare.</li><li>4. Open-ended lines should be closed by a blind flange or purged.</li><li>5. A totally closed-loop should be used in all routine samples.</li><li>6. Low emission packing should be used for valves.</li><li>7. High integrity sealing materials should be used for flanges.</li><li>8. As per CPCB guidelines, the unit has installed Instrumental methods for measurement of VOC detection at various locations to identify leak detection in plant areas to arrest on priority basis.</li></ol> <p>List of located devices attached as <a href="#">Annexure-1</a></p>
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3	<p>The National Ambient Air Quality Emission Standards issued by the Ministry vide GS. R. No 826 (E) dated 16th November 2009 shall be complied with</p>	<p><b>Complied</b></p> <p>The unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) at upwind and downwind location by a MoEF approved laboratory (Unistar Environment &amp; Research Labs Pvt. Ltd.). The results of the analysis are provided in the table. Copy of the analysis report has been attached as <a href="#">Annexure-2</a></p> <p><b><u>Unistar NABL Certification No.: TC-7753</u></b></p> <table><tr><th rowspan="2">Location</th><th rowspan="2">Parameters(microgram/m3)</th><th colspan="6">Month</th></tr><tr><th>Oct 24</th><th>Nov 24</th><th>Dec 24</th><th>Jan 25</th><th>Feb 25</th><th>Mar 25</th></tr><tr><td rowspan="4">Main Gate</td><td>PM10</td><td>72.00</td><td>74.88</td><td>65.90</td><td>71.30</td><td>78.50</td><td>79.88</td></tr><tr><td>PM2.5</td><td>21.00</td><td>24.00</td><td>20.60</td><td>22.80</td><td>24.13</td><td>23.63</td></tr><tr><td>SO2</td><td>13.20</td><td>17.00</td><td>13.76</td><td>14.73</td><td>19.91</td><td>19.85</td></tr><tr><td>NO2</td><td>16.20</td><td>21.85</td><td>18.73</td><td>19.36</td><td>24.98</td><td>25.01</td></tr><tr><td rowspan="4">ETP</td><td>PM10</td><td>75.00</td><td>70.75</td><td>68.20</td><td>72.08</td><td>75.00</td><td>74.25</td></tr><tr><td>PM2.5</td><td>24.00</td><td>23.00</td><td>21.60</td><td>28.54</td><td>23.13</td><td>23.38</td></tr><tr><td>SO2</td><td>12.40</td><td>19.13</td><td>14.50</td><td>16.13</td><td>20.25</td><td>19.96</td></tr><tr><td>NO2</td><td>17.20</td><td>23.29</td><td>18.91</td><td>20.15</td><td>25.16</td><td>25.05</td></tr><tr><td rowspan="4">Plant Office</td><td>PM10</td><td>70.00</td><td>70.75</td><td>68.20</td><td>69.05</td><td>67.63</td><td>71.00</td></tr><tr><td>PM2.5</td><td>21.00</td><td>23.00</td><td>21.60</td><td>21.56</td><td>23.25</td><td>24.38</td></tr><tr><td>SO2</td><td>15.30</td><td>19.13</td><td>14.50</td><td>15.63</td><td>14.90</td><td>15.85</td></tr><tr><td>NO2</td><td>20.80</td><td>23.29</td><td>18.91</td><td>20.65</td><td>19.30</td><td>18.70</td></tr></table>	Location	Parameters(microgram/m3)	Month						Oct 24	Nov 24	Dec 24	Jan 25	Feb 25	Mar 25	Main Gate	PM10	72.00	74.88	65.90	71.30	78.50	79.88	PM2.5	21.00	24.00	20.60	22.80	24.13	23.63	SO2	13.20	17.00	13.76	14.73	19.91	19.85	NO2	16.20	21.85	18.73	19.36	24.98	25.01	ETP	PM10	75.00	70.75	68.20	72.08	75.00	74.25	PM2.5	24.00	23.00	21.60	28.54	23.13	23.38	SO2	12.40	19.13	14.50	16.13	20.25	19.96	NO2	17.20	23.29	18.91	20.15	25.16	25.05	Plant Office	PM10	70.00	70.75	68.20	69.05	67.63	71.00	PM2.5	21.00	23.00	21.60	21.56	23.25	24.38	SO2	15.30	19.13	14.50	15.63	14.90	15.85	NO2	20.80	23.29	18.91	20.65	19.30	18.70
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4	National Emission Standards for Organic Chemicals Manufacturing industry issued by the Ministry vide GS. R. No 608 (E) dated 21/07/2010 and amended from time to time shall be followed.	<p><b>Complied</b></p> <p>National Emissions Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st November, 2010 and amended from time to time shall be followed.</p> <p>All process vents are in a closed loop. The venting of process vapor is done through a flare system. We continuously monitor VOC by portable instruments in the plant area. We are also monitored by NABL/MOEF &amp; CC / GPCB authorized parties (Unistar Environment &amp; Research Labs Pvt. Ltd.) on a monthly basis for the same. Also the unit has applied for partial EC to CCA for phase-1.</p>
5	Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants and shall carry out the project development in accordance & consistence with the same.	<p><b>Complied</b></p> <p>Being a ZLD unit, no effluent is sent to the GIDC drain. The certificate(undertaking) for disconnection of drainage connection issued by concerned authority on <b>18/04/2016</b> is attached as <a href="#">Annexure-3.</a></p> <p>Unit has obtained EC as EC no: SEIAA/GUJ/EC/5(f)/547/2019 dated 10-04-2019. Unit has obtained CTO AWH 112729 dated 15-06-2021 for ZLD.</p>
6	All measures shall be taken to avoid soil and groundwater contamination within premises.	<p><b>Complied</b></p> <p>Unit has taken all necessary precautions and monitored the soil from time to time to eliminate soil &amp; water contamination, all process areas are provided with proper flooring and catchment pit so that spills, if any, gets collected, transferred and properly treated in inhouse treatment systems. PCC flooring is provided for prevention of Soil contamination.</p> <p>The unit is carrying out Soil Analysis location by a MoEF approved laboratory (Unistar Environment &amp; Research Labs Pvt. Ltd.). The results of the analysis are provided in the table. Copy of the analysis report has been attached as <a href="#">Annexure-4.</a></p>

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7	<b><u>Safety &amp; Health:</u></b>	
a	PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.	<p><b>Complied</b></p> <p>Unit has also developed OHC with all medical facilities with a factory medical officer and Staff Nurse. Photograph Occupational Health Centre (OHC) attached below. Details of OHC are attached as <a href="#">Annexure-5</a>.</p> 

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		 <p>Shot on OnePlus By Dr.Naitik</p> <p><b><u>Occupational Health Centre (OHC)</u></b></p>
b	PP shall obtain fire safety certificate/Fire No-Objection certificate (NOC) from the concerned authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.	<p><b>Complied</b></p> <p>the unit has an adequate fire protection system including sprinkler systems, various types of fire extinguishers, a comprehensive hydrant system with multiple fire pumps and a fire tender, and a detailed gas detection system attached as <a href="#">Annexure-6</a></p>
c	Unit shall adopt functional operations/process automation system including emergency response to eliminate risk associated with the hazardous processes	<p><b>Complied</b></p> <p>Unit has an automation system and the whole process was controlled by the DCS system.</p>
d	PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.	<p><b>Complied</b></p> <p>We are ensuring to carry out mock drills within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.</p>



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e	PP shall install adequate fire hydrant system with foam trolley attachment within premises and separate storage of water for the same shall be ensured by PP	<b>Complied</b>  We have already an adequate fire hydrant system with foam trolley attachment within premises and separate storage of water.
f	PP shall take all the necessary steps for control of storage hazards within premises ensuring incompatibility of storage raw material and ensure the storage keeping safe distance as per the prevailing guidelines of the concerned authority	<b>Complied</b>  Separate Hazardous materials storage areas with dyke walls are provided.
g	PP shall take all the necessary steps for human safety within premises to ensure that no harm is caused to any worker/employee or labor within premises.	<b>Complied</b>  Unit has provided Proper PPE to the worker/employee and regular training is provided.Training sheet is attached below.

Aarti Industries Limited Training/Meeting Attendance Sheet						
Session Title		Date		Duration		
Safety		06/07/2024		08:00 AM		
Trainer		Instructor		Subject		
Manoj Kumar		H. Patel		Safety		
Sl. No.	Employee Code	Name	Designation	Function	Division	Signature
1	59000369	Vishal Joshi	Fire	Safety	Chemical	V. Joshi
2	59000386	Sudhakar Kumbhar	Male Nurse	Safety	Safety	S. K. Patel
3	59000519	Sushant Patel	Fire	Safety	Chemical	S. K. Patel
4	59000339	Kav. Upadhyay	Human	Safety	Neo	K. Upadhyay
5	59001557	Zaid Wazir	Process	Tech	Chemical	Z. Wazir
6	59001239	Sandeep R. Patel	MECH	MECH	Chemical	S. R. Patel
7	59000578	Latif R. Patel	Ops Safety	Process	Chemical	L. R. Patel
8	59000349	Gokul Kishore P	MECH	Process	Chemical	G. K. Patel
9	59001500	Jyotirmay Bhatt	Tech	MECH	Chemical	J. Bhatt
10	59000833	Anirudh Jambhani	Tech	MECH	Chemical	A. Jambhani
11	59001108	Chander Murchhi	Tech	MECH	Chemical	C. Murchhi
12	59000300	Hitesh - Tech	OPR	Fire	Neo	H. Patel
13	59001522	Ishtim Munsani	OPR	F.T.P.	Chemical	I. Munsani
14	59001924	Bhavit Chaudhary	Tech	Instrumentation	Chemical	B. Chaudhary
15	59001337	Ritesh Raut	A.T.	Utility/Control	Safety	R. Raut
16	59004111	Saurabh Kumar	Gr. Tech.	MECH	Chemical	S. Kumar
17	59001187	Chandhan Adin	Tech	MECH	Chemical	C. Adin
18	59001643	Nayim Murchhi	Sr. Tech	"	"	N. Murchhi
19	59001687	ANAND PATEL	TECH	"	"	A. Patel
20	59001687	ANAND PATEL	TECH	"	"	A. Patel
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

Remarks: \_\_\_\_\_

Sign of HSE: *Pavitra Patel* Sign of Faculty: *H. Patel* Date: *10/11/2024*

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

h	Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.	<b>Complied</b>  Unit has installed flameproof electrical fittings in the plant premises.
i	Unit shall provide a water sprinkler to the ammonia storage cylinder.	<b>Noted. Not Applicable</b>
j	Unit shall never store drum/barrels/carboys of incompatible material/chemical together.	<b>Noted &amp; Complied</b>
k	Unit shall provide effective isolation for the Process area and storage of hazardous chemicals.	<b>Complied</b>  Unit has a proper isolated tank farm area for the storage of the Hazardous chemical and also the dyke pit constructed to control spillage of any chemicals.

**A. 2 WATER:**

8	Total water requirement for the project shall not exceed 3072 KLD Unit shall reuse 776 KLD of treated industrial effluent within premises Hence, fresh water requirement shall not exceed 2296 KLD and it shall be met through GIDC water supply only Prior permission from concerned authority for withdrawal of water shall be obtained	<b>Complied</b>  Total Water Requirement is not exceeding 3072 KL/Day and fresh water requirement is not exceeding 2296 KL/Day and recycled water is 776 KL/Day. Water consumption is under the prescribed limit.						
		<b>Particular</b>	<b>Oct 2024</b>	<b>Nov 2024</b>	<b>Dec 2024</b>	<b>Jan 2025</b>	<b>Feb 2025</b>	<b>Mar 2025</b>
		Fresh Water Consumptions KLD	798.47	798.47	798.47	798.47	712.13	771.13
		Recycled Water (RO Permeate + MEE Condensate) Consumptions KLD	125.4	228.1	191.4	191.6	154.2	192.4
		<b>Total Water</b>	<b>923.87</b>	<b>1026.57</b>	<b>989.87</b>	<b>990.07</b>	<b>866.33</b>	<b>963.53</b>

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

		<table><tr><td>Consumptions KLD</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <p>The water consumption is within the prescribed limit. Water bill of the same is attached as <a href="#">Annexure-7</a></p> <p>In addition to this, the unit is also maintaining a logbook for the water consumption day-to-day basis.</p>	Consumptions KLD														
Consumptions KLD																	
9	The industrial effluent generation from the project shall not exceed 724 KLD.	<p><b>Complied</b></p> <p>The Industrial effluent generation has not exceeded 724 KLD. The total average of last six month data has been given in the table below:</p> <table><tr><th rowspan="2">MONTH</th><th>Industrial Effluent generation</th></tr><tr><th>KLD</th></tr><tr><td>October 2024</td><td>157.2</td></tr><tr><td>November 2024</td><td>255.8</td></tr><tr><td>December 2024</td><td>243.6</td></tr><tr><td>January 2025</td><td>212.9</td></tr><tr><td>February 2025</td><td>176.3</td></tr><tr><td>March 2025</td><td>209.1</td></tr></table> <p>The industrial effluent generation is within the permissible limit.</p>	MONTH	Industrial Effluent generation	KLD	October 2024	157.2	November 2024	255.8	December 2024	243.6	January 2025	212.9	February 2025	176.3	March 2025	209.1
MONTH	Industrial Effluent generation																
	KLD																
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November 2024	255.8																
December 2024	243.6																
January 2025	212.9																
February 2025	176.3																
March 2025	209.1																
10	<p>Management of Industrial effluent shall be as under:</p> <p>47 KLD effluent generated from process, washing and scrubber shall be in primary, secondary &amp; tertiary ETP followed by RO-III. 33 KLD RO III permeate shall be reused within premises.</p> <p>677 KLD effluent generated from boiler, cooling tower and DM reject shall be</p>	<p><b>Complied</b></p> <p>The unit is a Zero liquid discharge unit. The effluent coming from various plants are collected and treated in ETP consists of :</p> <p>Primary Treatment: Stripper, 3 layer separation tank, Equalization tank, Flash Mixer (Coagulation), Flocculation Tank, Lamella Settler.</p>															

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

<p>treated in primary ETP followed by RO- 507 KLD RO-I permeate shall be reused within premises and 170 KLD RO-I reject shall be treated in RO-L 119 KLD RO-II permeate shall be reused within premises.</p>	<p>Secondary Treatment: Aeration Feed Tank, Aeration Tank, Secondary Clarifier</p> <p>Tertiary Treatment: RO, MEE &amp; ATFD.</p> <p>ZLD Flow diagram attach in <a href="#">Annexure : 8</a></p> <p>And further treatment in RO followed by MEE &amp; ATFD. The details of wastewater generation are given below.</p>																																
<p>14 KLD RO-III reject and 51 KLD RO-II reject shall be treated in MEE/ATFD 60 KLD MEE condensate shall be reused within premises.</p>	<table><tr><th>Particular</th><th>Unit</th><th>Oct 2024</th><th>Nov 2024</th><th>Dec 2024</th><th>Jan 2025</th><th>Feb 2025</th><th>Mar 2025</th></tr><tr><td>RO Permeate</td><td>Total KLD</td><td>121.8</td><td>214.8</td><td>182.1</td><td>180</td><td>159.3</td><td>178.3</td></tr><tr><td>MEE Condensate</td><td>Total KLD</td><td>3.7</td><td>13.2</td><td>9.3</td><td>11.5</td><td>5.9</td><td>7.9</td></tr><tr><td>Total Water Recycled to Cooling Tower</td><td>Total KLD</td><td>125.5</td><td>228</td><td>191.4</td><td>191.5</td><td>165.2</td><td>186.2</td></tr></table> <p>All quantities are within the prescribed limit.</p>	Particular	Unit	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	RO Permeate	Total KLD	121.8	214.8	182.1	180	159.3	178.3	MEE Condensate	Total KLD	3.7	13.2	9.3	11.5	5.9	7.9	Total Water Recycled to Cooling Tower	Total KLD	125.5	228	191.4	191.5	165.2	186.2
Particular	Unit	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025																										
RO Permeate	Total KLD	121.8	214.8	182.1	180	159.3	178.3																										
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**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

11	Domestic wastewater generation shall not exceed 57 KL/day for proposed project and it shall be treated in STP. It shall not be disposed off into soak pit septic tank. Treated sewage shall be utilized for gardening & plantation purpose and cooling tower within premises after achieving on-land discharge norms prescribed by the GPCB	<div>Complied.</div> <table><thead><tr><th></th><th>Domestic Waste Water generation</th></tr><tr><th>MONTH</th><th>KLD</th></tr></thead><tbody><tr><td>October 2024</td><td>34.0</td></tr><tr><td>November 2024</td><td>31.0</td></tr><tr><td>December 2024</td><td>30.9</td></tr><tr><td>January 2025</td><td>27.3</td></tr><tr><td>February 2025</td><td>19</td></tr><tr><td>March 2025</td><td>18</td></tr></tbody></table> <div>All sewage generation quantities are within the permissible limit.</div> <div>For Domestic sewage Unit has Installed adequate 60 KLD STP and treated sewage is reused for gardening/plantation within premises after analyzing the parameter. analysis report data given in below table also the lab report attached in <a href="#">Annexure :9</a></div>		Domestic Waste Water generation	MONTH	KLD	October 2024	34.0	November 2024	31.0	December 2024	30.9	January 2025	27.3	February 2025	19	March 2025	18
	Domestic Waste Water generation																	
MONTH	KLD																	
October 2024	34.0																	
November 2024	31.0																	
December 2024	30.9																	
January 2025	27.3																	
February 2025	19																	
March 2025	18																	
12	During monsoon season when treated sewage September not be required for the plantation / Gardening/Green belt purpose, it shall be stored within premises. There shall be no discharge of wastewater outside the premises in any case	<div>Noted and Complied</div> <div>The treated STP water is being used for green belt development / Cooling tower. During Monsoon the treated STP water shall be used for cooling tower make up. Also, the Unit has constructed a guard tank for storage of treated water.</div>																
13	Unit shall provide a buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.	<div>Complied</div> <div>Unit <del>is</del> maintains the ZLD system.</div> <div>Unit has an adequate buffer with two water storage tanks each of 225 KL capacity for holding the treated wastewater during the rainy days.</div>																
14	Unit shall provide ETP STP, ROS & MEE with adequate capacity	<div>Complied</div> <div>Primary Treatment: Stripper, 3 layer separation tank, Equalization tank, Flash Mixer</div>																

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

		(Coagulation), Flocculation Tank, Lamella Settler	
		Secondary Treatment: Aeration Feed Tank, Aeration Tank, Secondary Clarifier	
		Tertiary Treatment: RO, MEE & ATFD.	
		And further treatment in RO followed by MEE & ATFD.	
		ZLD Equipment RO, MEE & ATFD	
		SR. No	Existing Installed Capacity (KLD)
		Description	
		1	Effluent Treatment Plant
		2	RO- Process (Chemical)
		3	Utility RO-1
		4	Utility RO-2
		5	MEE & ATFD
		6	HP RO
		7	SP RO
		9	STP
		10	Stripper

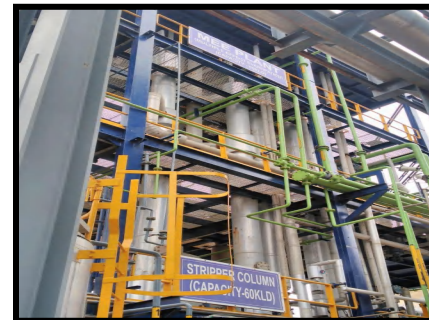
**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**



**ETP-60 KLD**



**Stripper-60 KLD**





**MEE & ATFD-60KLD**



**RO Process (Chemical)-60 KLD  
& HP RO-50KLD**

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

		 <p align="center"><b><u>SP RO-200KLD</u></b></p>  <p align="center"><b><u>Utility RO-1 - 150 KLD</u></b> <b><u>&amp; Utility RO-2 - 550KLD</u></b></p>												
15	The unit shall provide metering facility at the inlet and outlet of ETP STP ROS & MEE and maintain records for the same.	<p><b>Complied</b></p> <p>The unit has provided metering facilities at the inlet and outlet of ETP STP ROS &amp; MEE and maintains records for the same.</p>												
16	Proper logbooks of ETP, STP ROS & MEE reuse recycle of treated untreated effluent chemical consumption in effluent treatment quantity & quality of treated effluent power consumption etc shall be maintained and shall be furnished to the GPCB from time to time.	<p><b>Complied</b></p> <p>The unit has maintained proper records for ETP,MEE,RO and MEE logbooks.</p>												
<b>A.3 AIR:</b>														
17	Unit shall not exceed fuel consumption for boilers. TFHs and D G Sets as mentioned below:	<p><b>Complied</b></p> <p>The data of the last six months are given in the following table.</p> <table border="1"> <thead> <tr> <th colspan="3">Natural Gas Consumption</th></tr> <tr> <th>Month</th><th>Total Consumption (kg/Month)</th><th>Total Consumption Kg/Hr</th></tr> </thead> <tbody> <tr> <td><b>October 2024</b></td><td align="center">62,392.94</td><td align="center">86.7</td></tr> <tr> <td><b>November 2024</b></td><td align="center">64,057.05</td><td align="center">89.0</td></tr> </tbody> </table>	Natural Gas Consumption			Month	Total Consumption (kg/Month)	Total Consumption Kg/Hr	<b>October 2024</b>	62,392.94	86.7	<b>November 2024</b>	64,057.05	89.0
Natural Gas Consumption														
Month	Total Consumption (kg/Month)	Total Consumption Kg/Hr												
<b>October 2024</b>	62,392.94	86.7												
<b>November 2024</b>	64,057.05	89.0												

Sr. No	Source of Emission	Stack Height	Fuel Type	Fuel Consumption	Types of Pollution
1	Boiler-1 (Cap. 20TPH)	42 (Common chimney)	Coal	3333.3 kg/hr	PM: 150 mg/Nm3



**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

	2	TFH-1 (Cap. 20 Lac kCal/hr)	with Boller)	Natural Gas	187.5 kg/hr	SOx: 100 ppm	& NOx: 50 ppm
	3	Boiler-II (Cap. 67 TPH)	80	Coal	310 MT/day		
	4	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr		
	5	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr		
	6	DG Set Cap. 1500 kVA	30	Diesel	300 lit/ hr		
	7	Ethylation Furnace Vent	42	Coal	150 kg/ hr		
	Proposed Additional						
	1	Boiler-III (Cap. 67 TPH)	80 (Common chimney with Boller-II)	Coal	12.917 MT/ hr	PM: 150 mg/Nm3	& NOx: 50 ppm
	2	TFH-II (Cap. 40 Lac kCal/hr)	35	Coal	1.4 MT/ hr		
	3	DG Set Cap. 2500 kVA	30	Diesel	750 lit/ hr		
	Total After Proposed Expansion						

December 2024	84,385.55	117.2
January 2025	55460.47	77.0
February 2025	64479.16	89.6
March 2025	66188.09	91.9

Month	Total Diesel Consumption (Ltr/Month)	Diesel Consumption (Ltr/Hr)
October 2024	258	0.4
November 2024	268	0.4
December 2024	238.85	0.4
January 2025	277.10	0.3
February 2025	200.6	0.3
March 2025	2293.29	3.2

Month	Coal Consumption in 67 TPH & 14 TPH boiler (MT/Month)	Coal Consumption for boiler (MT/day)	Coal Consumption for boiler (MT/Hr)
October 2024	4,706.0	151.8	6.3
November 2024	4,903.0	163.4	6.8
December 2024	5,601.0	180.7	7.5
January 2025	5,602.0	180.7	7.5
February 2025	4963	171.1	7.1
March 2025	5,287	170.5	7.1

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

	1	Boiler-1 (Cap. 20TPH)	42 (Common chimney with Boller)	Coal	3.3333 MT/ hr	PM: 150 mg/Nm3 SOx: 100 ppm & NOx: 50 ppm
	2	TFH-1 (Cap. 20 Lac kCal/ hr)		Natural Gas	0.1875 MT/ hr	
	3	Boiler-II (Cap. 67 TPH)	80 (Common chimney)	Coal	12.917 MT/ hr	
	4	Boiler-III (Cap. 67 TPH)		Coal	12.917 MT/ hr	
	5	TFH-II (Cap. 40 Lac kCal/ hr)	35	Coal	1.4 MT/ hr	
	6	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr	
	7	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr	
	8	DG Set Cap. 1500 kVA	30	Diesel	300 lit/ hr	
	9	DG Set Cap. 2500 kVA	30	Diesel	750 lit/ hr	
18	Unit shall provide adequate APCM with flue gas generation sources to achieve the norms prescribed by GPCB.					<b>Complied</b> APCM systems have been installed for Boiler 67 TPH, 20 TPH such as ESP. Fly Ash being stored in a silo storage area.

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

**APCM:-**

APCM systems have been installed for Boiler 67 TPH, 20 TPH such as ESP. Fly Ash being stored in a silo storage area.



**3 stage ESP and 76 m stack attached to boiler**

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**



**Silo installed for fly ash storage and dusting free truck loading**



**Automated Lime feeding system for controlling SOx emission.**

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

19 Unit shall provide adequate APCM with process gas generation sources as mentioned below.

Sr. N o.	Sp. Source of Emission	Type of Emission	Stack Height	APCM
<b>Existing</b>				
1	CaCO <sub>3</sub> reactor	HCl	11	Falling film Absorber followed by Alkali Scrubber
2	Chlorinator	HCl	11	Falling film Absorber followed by Tail Gas Tower
3	Flare Stack (NG - 5 kg/ hr)	-	18	-
4	Scrubber to Hydrolysis Process-I	HCl	11	Caustic Scrubber
<b>Proposed Additional</b>				
1	Scrubber to Hydrolysis Process-II	HCl	11	Caustic Scrubber
2	Flare Stack (NG - 10 kg/ hr)	-	18	-
<b>Proposed Total</b>				
1	Scrubber to Hydrolysis Process-I	HCl	11	Caustic Scrubber

**Complied**

Alkali scrubber has been provided for control of HCl gas emission from the Ethylation and Propylation process. Scrubber to Hydrolysis Process-II has been connected into the Scrubber to Hydrolysis Process-I as per CCA No. AWH-112729 & dated 15/06/2021.

HCL emissions in the Ethylation and Propylation process are monitored by an approved NABL / GPCB/MOEF&CC authorized party (Unistar Environment & Research Labs Pvt. Ltd.). The results are given below table. Copy attached in the following table. See [Annexure-10](#).

**Unistar NABL Certification No.: TC-7753**

Month	HCl (mg/Nm <sup>3</sup> )	GPCB Limit
<b>October 2024</b>	BDL	20 mg/Nm <sup>3</sup>
<b>November 2024</b>	BDL	
<b>December 2024</b>	BDL	
<b>January 2025</b>	BDL	
<b>February 2025</b>	BDL	
<b>March 2025</b>	BDL	

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

	2	Scrubber to Hydrolysis Process-II	HCl	11	Caustic Scrubber	
	3	Flare Stack (NG - 10 kg/ hr)	-	18	-	
20	PP shall use approved fuels only as fuel in boilers					<b>Complied</b> Unit has used approved fuels only in boilers.
21	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (eg. Directors of Industrial Safety Health). Following indicative guidelines shall also be followed to reduce the fugitive emission. <ul style="list-style-type: none"><li>Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.</li><li>Air borne dust shall be controlled with water sprinklers at suitable locations in the plant</li><li>A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive &amp; transport dust emission</li></ul>					<b>Complied</b>  Unit has followed below guidelines to reduce the fugitive emissions in the work zone.  Internal roads are concreted.  Water sprinklers are provided to control air borne dust at suitable locations in the plant.  Green belt is developed around the roads and the periphery of the site to mitigate fugitive & transport dust emission <a href="#">Annexure-11.</a>
22	Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.					<b>Complied</b> As per CPCB guidelines, Unit has installed Instrumental methods for measurement of VOC detection at various locations to identify leak detection in plant areas to arrest on priority basis. List of located devices attached as <a href="#">Annexure-1.</a>
23	For control of fugitive emission, VOCs, following steps shall be followed:					<b>Complied.</b>  ➤ Closed handling and charging systems have been provided for chemicals. ➤ Reflux condenser has been provided over Reactors / Vessels. ➤ Pumps have been provided with mechanical seals to prevent leakages. ➤ The plant is operated by a DCS system. ➤ Unit has provided an enclosure system for air borne dust at all transfer operations
	Closed handling and charging system shall be provided for chemicals Reflux condenser shall be provided over Reactors/Vessels					
	Pumps shall be provided with mechanical seals to prevent leakages					
	Air borne dust at all transfers operations points shall be controlled either by spraying water or providing enclosures.					

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

24	Regular monitoring of ground level concentration of PM10. PM2.5. SO2, NOx, HCl and VOCs shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.	<p><b>Complied</b></p> <p>The unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) at upwind and downwind location by a MoEF approved laboratory (Unistar Environment &amp; Research Labs Pvt. Ltd.).</p> <p>The details are mentioned in point No.3.</p> <p>The results of the analysis are provided in the table. Copy of the analysis report has been attached as <a href="#">Annexure-2</a></p>
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**A.4 SOLID/HAZARDOUS WASTE:**

25	All the hazardous/ solid waste management shall be taken care of as mentioned below.							<b>Complied.</b>  The unit has obtained permission from the GPCB CCA No. AWH-112729, Issued on 15/06/2021 valid till 19/05/2028 for collection, storage and disposal of hazardous waste. The solid waste is disposed to BEIL, Ankleshwar, process waste is disposed to RSPL for co processing & Aluminium Hydroxide (Process Waste) is being sent to Pradip Overseas (Rule-9) for utilization as raw material in their process through manifest system and GPS.							
	Sr . No	Type/Name of Hazardous waste	Source of generation	Category and schedule as per HW rules	Quantity (MT/Annum)			Disposal Method							
					Existing	Proposed	Total								
	1	ETP Sludge	From ETP	35.3	482	500	730	Collected and Sent to GPCB Approved CHWIF/TSDF site for landfilling or will be sent for co-processing/ pre-Processing / incineration facility	Month	ETP Sludge + MEE Salt (35.3) (MT) Landfilling	Process Residue (26.1) (MT) Pre-processing	Spent Waste oil (5.1) (MT)	Aluminum Hydroxide / Process Waste(26.1) (Rule-9, Pre-processing & incineration) (MT)	Discarded Bags/Insulation Waste(33.1) (MT)	Insulation Waste/NRP
	2	MEE Salt	From MEE	35.3		1573	1825	Collected and Sent to GPCB Approved CHWIF/TSDF							
												Rule-9			

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

							site for landfilling or will be sent for co-processing/ incineration facility	<b>October 2024</b>	77.53	17.02	0	438.62	0.59	6.21
								<b>November 2024</b>	123.48	10.98	0	256.83	0.77	0
3	Used or Spent Oil	From Plant Operation	5.1	9	26	35	Collection, storage transportation, disposal by selling out to GPCB Registered recyclers/ reproprocessors/ co-processing.	<b>December 2024</b>	34.81	13.34	2.05	1196.9	0	3.51
								<b>January 2025</b>	33.37	21.1	0	536.85	8.18	2.36
								<b>February 2025</b>	57.69	22.07	0	951.15	0.99	2.54
								<b>March -2025</b>	23.88	25.45	0	913.75	0	0.89
4	Discarded Container (Drums/ Carboys/ bottles/ bags)	From Plant Operation	33.1	6.2	8.8	15	Collection, storage transportation, disposal by sending to GPCB authorized reproprocessors/ recyclers/ CHWIF/ TSDF.	<b>Total</b>	350.76	109.96	2.05	4294.1	10.53	15.51
								<b>Month</b>	<b>Spent Catalyst (26.5) (MT)Recyclers</b>	<b>Spent carbon(26.1) (MT)</b>	<b>Off-Specific ation(26.1)( MT)</b>	<b>spent Resin(35.2) (MT)</b>	<b>HF</b>	<b>H3BO3</b>
5	Process Waste (Residue)	From Manufacturing of Products in Group A & B.	26.1	600	5460	6060	Collection, storage transportation, disposal to GPCB Approved CHWTSDF site for incineration or will be sent for co-processing/ pre-processing facility.	<b>Limit (MT/Annunm)</b>	<b>0.0</b>	<b>60</b>	<b>32</b>	<b>20</b>	<b>0</b>	<b>0</b>
								<b>October 2024</b>	0	0	0	0	0	0
								<b>November 2024</b>	0	0	0	0	0	0
6	Spent Catalyst	From Processes	26.5	0.12	-0.12	0	Collection, storage transportation, disposal by selling	<b>December 2024</b>	0	0	0	0	0	0



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							out to GPCB Registered recyclers	January 2025	0	0	0	0	0	0
7	Aluminium Hydroxide (Al(OH)3)	From Manufacturing of Products in Group A	26.1	12168	69571	81739	Collection, storage Transportation, send to authorized end user industry having permission under Rule-9 of Hazardous & Other Waste rules 2016 or incineration/ co-processing/ pre-processing facility.	February 2025	0	0	0	0	0	0
								March 2025	0	0	0	0	0	0
								Total	0	0	0	0	0	0
								All the disposed quantity are within the prescribed limit  Unit is strictly complying with all the regulations mentioned in Hazardous waste rule, 2016 (Manifest-Form 10/Labeling-Form 8/ TREM Card- Form 9/Maintain Records-Form 3/ Annual return submission- Form 4 etc.  The unit is submitting Form 4 & on a regular basis, Form- 4 of 2024-25 is submitted to the board As vide letter number AIL/DHJ/NEO/ENV/2025-26/01 and the same as attached as <a href="#">Annexure-13</a>						
8	Non Recyclable Plastic, PPE & Insulation waste/ cotton waste	From Plant	33.1	20	20	40	Collection, storage transportation, disposal by selling to authorized recyclers/ reproprocessors/ co-processing or GPCB Approved CHWTSDF Site.							
9	Spent Carbon	From ETP & DM Plant	26.1	20	40	60	Collection, storage transportation, disposal to GPCB Approved CHWTSDF site for incineration or will be sent for							

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								co-processing/ pre-processing facility	
	10	Off Specificat ion Product	From Manuf acturi ng Proces s	26.1	12	20	32	Collection, storage transportation, disposal to GPCB Approved CHWTSDF site for incineration or will be sent for co-processing facility.	
	11	Spent resin	From DM Plant	35.2	0	20	20	Collection, storage Transportation, sent for co-processing/ Pre-processing/ TSD/ CHWIF.	
	12	HF	-	-	234	-234	0	Not Applicable	
	13	H3BO3	-	-	243	-243	0	Not Applicable	
26	Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.								<p><b>Complied</b></p> <p>Unit is generating Aluminum Hydroxide as Hazardous waste for which valid authorization CCA number AWH-112729, dated 15/06/2021 is obtained. Aluminum hydroxide is being sent to Mona Print Pvt Ltd. (Rule-9) for utilization as raw material in their process through manifest system and AIS-140 based GPS tracking. Also we have intimated GPCB for the same. Sample copy attached as <a href="#">Annexure-14.</a> &amp; <a href="#">Annexure-15</a> &amp; respectively. MoU also attached as <a href="#">Annexure-16</a></p>

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27	Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of Incinerable & land fillable wastes before sending to CHWIF & TSDF sites respectively.	<p><b>Compiled</b></p> <p>Unit is exploring all the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of incinerable and land fillable wastes. Unit had made an agreement with M/s. Ambuja Cement for incinerable to co-processing waste. Attachment is attached as <a href="#">Annexure-17</a></p>
28	Management of fly ash shall be as per the Fly ash Notification 2009 & its amendment from time to time and it shall ensure 100% utilization of fly ash to be generated from the unit.	<p><b>Compiled.</b></p> <p>We are sending 100percent Fly Ash to the end user for the purpose of brick manufacturing. MoU is attached as <a href="#">Annexure-18</a></p>
29	STP sludge shall be collected and used as manure in gardening activity or sent to TSDF site for landfilling.	<p><b>Complied</b></p> <p>STP sludge is collected and used as manure in gardening activity or sent to TSDF site for landfilling.</p>
30	The project proponent has to obtain membership of TSDF site & CHVWIF before obtaining CTO of GPCB.	<p><b>Compiled.</b></p> <p>Monthly sludge generation and disposal. Unit has valid membership of the TSDF(BEIL), SEPPL and RSPL. Copies of membership certificates are attached as <a href="#">Annexure-19</a></p>
31	The unit shall submit the list of authorized end users of hazardous wastes along with MoU signed with them at least two months in advance prior to the commencement of production in the absence of potential buyers of these items the unit shall restrict the production of the respective items.	<p><b>Complied</b></p> <p>Unit has made MOU with the end user of hazardous waste along with MOU. MoU also attached as <a href="#">Annexure-16</a></p>
<b>A.5 OTHER:</b>		
32	The project proponent shall carry out the activities [Land reformation for tree plantation with maintenance. Fencing & Security infrastructure development, Tree plantation, Maintenance of plantation, Drip Irrigation, Lake formation, Chen of water bodies, Installation of Dam Formation, Khet Falavadi formation, Water recharge borewell, Maintenance Panel, Dental care through mobile van, Medical camps with appropriate treatments for all nearby villagers, Collation with CHC/PHC for health infrastructure developments, Collaboration with nearby hospitals JIA. Serva Rural for SE development, Hygiene awareness for community	<p><b>Complied</b></p> <p>The project proponent has complied with all the conditions mentioned in “The Companies (Corporate Social Responsibility Policy) Rules 2014” and its amendments from time to time. The CER/CSR activities list have been below</p>

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	through medical team, Swachh Bharat Abhiyan for community Vadadla, Vav, Kadodara proposed under CER and it shall be part of the Environment Management Plan (EMP) as MoEF&CCS OM no. F No 22-65/2017-IA III dated 30.09.2020. This shall be monitored and the monitoring report submitted to the regional office of MoEF&CC as a part of a half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.	<b>Name of Associated NGO</b>	<b>Nature of Work</b>	<b>Amount (Rs)</b>
		Ramdev Electronics (C/o Jan seva & Charitable Trust)	Donation of BPL Smart LED 55 inch TV to School	40,000
		Happy Home	Distribution of 200 Water Bottle (per pieces price 180)for Lakhigam School	42,480
		Gram Vikas Trust	Donation for Aarti Play group school at village Dahej & Mira nagar Ankleshwar	741,256
		Gram Vikas Trust	Donation for Vidya Sarthi Project	250,000
		<b>Total :</b>		<b>1,073,736</b>
33	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. ENPRO Enviro Tech and Engineers Pvt. Ltd. and submitted by the project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.	<b>Noted and will be Complied</b>		
<b>B. GENERAL CONDITIONS:</b>				
<b>B.1 CONSTRUCTION PHASE:</b>				
34	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices	<b>Complied</b>  Unit has adopted best construction practices for expansion.		

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35	Project proponents shall ensure that the surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.	<b>Complied</b>  Unit has installed AAQM monitoring systems at different places for controlling fugitive emission.																																																																			
36	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	<b>Complied</b>  Unit has provided all required sanitary and hygienic measures separately for expansion related project work.																																																																			
37	First Aid Box shall be made readily available in adequate quantity at all the times.	<b>Complied</b>  First Aid Boxes are available and required Antidotes for the chemicals used in the unit will be made available in adequate quantity before commencement of expansions.																																																																			
38	The project proponent shall strictly comply with the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act 1995 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be compiled in letter and spirit.	<b>Complied</b>  The project proponent strictly comply with the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act 1995 and Gujarat rules made there under and their subsequent amendments.																																																																			
39	Ambient noise levels shall conform to residential standards both during day and night Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.	<b>Complied</b> <table><tr><th rowspan="2">Locati on</th><th rowspan="2">GPCB LIMITS</th><th colspan="2">October'24</th><th colspan="2">November'24</th><th colspan="2">December'24</th><th colspan="2">January'25</th><th colspan="2">February'25</th><th colspan="2">March'25</th></tr><tr><th>Day Time</th><th>Night Time</th><th>Day Time</th><th>Night Time</th><th>Day Time</th><th>Night Time</th><th>Day Time</th><th>Night Time</th><th>Day Time</th><th>Night Time</th><th>Day Time</th><th>Night Time</th></tr><tr><td>Near Main Gate</td><td>Day @ 75 dB</td><td>63.4</td><td>51.3</td><td>62.4</td><td>52.3</td><td>61.5</td><td>56.2</td><td>62.5</td><td>57.5</td><td>63.1</td><td>58.2</td><td>65.6</td><td>59.7</td></tr><tr><td>Near Mate rial Gate</td><td>(A) Night @ 70 dB</td><td>62.1</td><td>52.4</td><td>61.8</td><td>53.7</td><td>62.3</td><td>55.8</td><td>61.4</td><td>56.2</td><td>62.5</td><td>57.2</td><td>64.3</td><td>55.3</td></tr></table>														Locati on	GPCB LIMITS	October'24		November'24		December'24		January'25		February'25		March'25		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Near Main Gate	Day @ 75 dB	63.4	51.3	62.4	52.3	61.5	56.2	62.5	57.5	63.1	58.2	65.6	59.7	Near Mate rial Gate	(A) Night @ 70 dB	62.1	52.4	61.8	53.7	62.3	55.8	61.4	56.2	62.5	57.2	64.3	55.3
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**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

		<div> <div> Near Boiler </div> <div>(A)</div> <div> 71.6 62.7 70.6 63.5 68.5 62.8 70.5 65.8 69.4 64.2 70.4 67.5 </div> </div> <div> <div> Near ETP </div> <div></div> <div> 70.3 57.3 71.2 66.8 66.5 60.2 68.2 63.5 67.1 62.3 69.6 64.6 </div> </div> <div> <div> Near MEA Plant </div> <div></div> <div> 69.4 60.8 68.6 61.2 67.3 62.5 66.4 61.8 65.3 60.5 66.7 63.8 </div> </div> <div> <div> Near MEA- 2 Project Area </div> <div></div> <div> 63.2 53.3 62.5 54.6 66.4 57.2 65.1 60.3 64.2 59.2 64.8 56.2 </div> </div>
		<p>Noise report is attached as <a href="#">Annexure-21</a></p>
40	Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	<p><b>Complied</b></p> <p>Unit has ensured the requirement of acoustic enclosure for operating the DG sets during existing operation.</p>
41	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured	<p><b>Complied</b></p> <p>Unit ensures safe disposal of waste water &amp; municipal solid wastes which is generated from construction activity which is treated in the existing ZLD system within the plant.</p>
42	All topsoil excavated during construction activity shall be used in horticultural landscape development within the project site.	<p><b>Complied</b></p> <p>Unit is utilizing topsoil and excavated soil for leveling purposes at sister concern unit. Also a unit having permission for the same.</p>

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43	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects Disposal of the excavated earth during construction phase shall not create adverse effect on neighboring communities	<b>Complied</b>  Excavated earth to be generated during the construction phase is utilized within the premises to the maximum extent possible.
44	Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC) and lead free paints in the project	<b>Complied</b>  We are sending 100percent Fly Ash to the end user for the purpose of brick manufacturing.
45	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the EP. Act 1986 and its subsequent amendments from time to time.	<b>Complied</b>  Fly Ash notification compliance report is attached as <a href="#">Annexure- 22</a>
46	Windbreakers of appropriate height i.e 1/3rd of the building height and maximum up to 10 meters shall be provided Individual building within the project site shall also be provided with barricades.	<b>Complied</b>  Windbreakers of appropriate height i.e 1/3rd of the building height and maximum up to 10 meters is provided Individual building within the project site along with barricades.
47	No uncovered vehicles carrying construction material and waste shall be permitted."	<b>Complied</b>
48	"No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured"	<b>Complied</b>
49	Roads leading to or at construction site must be paved and blacktopped (ie metallic roads)	<b>Complied</b>
50	No excavation of soil shall be carried out without adequate dust mitigation measures in place.	<b>Complied</b>
51	Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing	<b>Complied</b>
52	Grinding and cutting of building materials in open areas shall be prohibited.	<b>Complied</b>
53	Construction material and waste should be stored only within earmarked areas and road side storage of construction material and waste shall be prohibited.	<b>Complied</b>

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54	Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site (if applicable)	<b>Complied</b>
<b>B.2 OPERATION PHASE:</b>		
<b>B.2.1 WATER:</b>		
55	The water meter shall be installed and records of daily and monthly water consumption shall be maintained .	<b>Complied</b>  The water consumption is within the prescribed limit.  In addition to this, the unit is also maintaining a logbook for the water consumption day-to-day basis.
56	All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.	<b>Complied</b>  All efforts are made to optimize water consumption by exploring Best Available Technology (BAT). The unit continuously strives to reduce, recycle and reuse the treated effluent.
<b>B.2.2 AIR:</b>		
57	In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & its APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	<b>Complied</b>  As of now the unit has not installed any spray dryer system as it is not the process requirement.
58	Acoustic enclosure shall be provided to the DG sets (If applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.	<b>Complied</b>  Unit has provided acoustic enclosure to DG sets to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.



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59	Stacks/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission .	<p><b>Complied</b></p> <p>Stacks of adequate height as per prevailing norms are provided for the flue gas and process emissions. Stack heights are given as below:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Stack attached to</th><th>Stack height (m)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Boiler-I (Capacity- 14 TPH)</td><td rowspan="2">42 (Common)</td></tr> <tr> <td>2</td><td>Thermic Fluid Heater (Capacity- 20 Lac Kcal/Hr)</td></tr> <tr> <td>3</td><td>D G Set(Capacity- 1000 KVA)- 2 Nos.</td><td>30</td></tr> <tr> <td>4</td><td>D G Set (Capacity- 1500 KVA)</td><td>30</td></tr> <tr> <td>5</td><td>Boiler II (Capacity- 67 TPH)</td><td>80</td></tr> <tr> <td>6</td><td>HCL Scrubber</td><td>11</td></tr> <tr> <td>7</td><td>Reactor (NG consumption 5 kg/hr for flaring)</td><td>18</td></tr> </tbody> </table>	Sr. No.	Stack attached to	Stack height (m)	1	Boiler-I (Capacity- 14 TPH)	42 (Common)	2	Thermic Fluid Heater (Capacity- 20 Lac Kcal/Hr)	3	D G Set(Capacity- 1000 KVA)- 2 Nos.	30	4	D G Set (Capacity- 1500 KVA)	30	5	Boiler II (Capacity- 67 TPH)	80	6	HCL Scrubber	11	7	Reactor (NG consumption 5 kg/hr for flaring)	18
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60	Flue gas emission & Process gas emission (if any) shall conform to the standards prescribed by the GPCB/CPCB/MOEFCC At no time, emission level should go beyond the stipulated standards.	<p><b>Complied</b></p> <p>Flue gas emissions are monitored by an approved NABL / GPCB/MOEF and CC authorized party (Unistar Environment and Research Labs Pvt. Ltd.). The results are attached in the following table. Results for the same are attached as <a href="#">Annexure-23</a>.</p>																							
61	All the reactor vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	<p><b>Complied</b></p> <p>All reactor/vessels are in closed loop system. There is no fugitive emission generation.</p>																							
<b>B.2.3 HAZARDOUS/SOLID WASTE:</b>																									
62	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as September be amended from time to time Authorization of the GPCB shall be	<p><b>Complied</b></p> <p>Unit is strictly complying with all the regulations mentioned in Hazardous waste rule,</p>																							


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	obtained for collection/treatment/storage/disposal of hazardous wastes.	2016 (Manifest-Form 10/Labeling-Form 8/ TREM Card- Form 9/Maintain Records- Form 3/ Annual return submission- Form 4 etc. If required in future we will do amendments from time to time.
63	Hazardous wastes shall be driest, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	<b>Complied</b>  Unit has provided a hazardous waste storage area with a pucca bottom and leachate collection facility.
64	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF (Whichever is applicable)	<b>Complied</b>  Unit has received membership from BEIL & SEPPL. Membership certificate copy from CHWIF and TSDF of the same are attached in <a href="#">Annexure-24</a>
65	Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988. and rules made there under	<b>Complied</b>  Unit is ensuring to deploy trucks/Tankers as per the provisions under the Motor Vehicle Act, 1988 and rules made there under for the transportation of hazardous waste. Unit is Following the AIS 140 based GPS tracking System for all the Hazardous Waste Vehicle.
66	The design of the Trucks/tankers shall be such that there is no spillage during transportation	<b>Complied</b>  Unit is ensuring to deploy trucks/Tankers suitable for hazardous waste so that there will not be any leakage / spillage during transportation.
67	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	<b>Complied</b>  Unit is putting all efforts to pre-treat / process the hazardous waste before disposal to TSDF / CHWIF.
68	Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment from time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	<b>Noted and complied</b>  Fly Ash notification compliance report is attached as <a href="#">Annexure- 22</a>
<b>B.2.4 SAFETY:</b>		
69	The occupier/manager shall strictly comply with the provisions under the Factories Act 1948 and the Gujarat Factories Rules, 1963.	<b>Complied</b>  The occupier has strictly complied with the provisions under the Factories Act 1948 and Gujarat Factories Rules 1963.

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70	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989 as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented	<p><b>Complied</b></p> <p>The project management strictly complies with the provisions made in the factories Act, 1948 as well as Manufacture, Storage and Impact of Hazardous Chemical Rules, 1989 as amended in 2000 for handling of hazardous chemicals.</p> <p>Certificate issued from PESO is attached as <a href="#">Annexure-25</a> On-site and Off-site Disaster Management Plans have been prepared and implemented and Same has been submitted to DISH and attached as <a href="#">Annexure-26</a></p>
71	Main entry and exit shall be separate and clearly marked in the facility.	<p><b>Complied</b></p> <p>Main entry &amp; Exit were separated and have been constructed marked clearly.</p>
72	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender! emergency vehicle around the premises	<p><b>Complied</b></p> <p>Sufficient peripheral open passage is provided in the margin area for free movement of fire tender/ emergency vehicle around the premises.</p>
73	Storage of flammable chemicals shall be sufficiently away from the production area	<p><b>Complied</b></p> <p>Unit has been constructed as per prevailing rules of government authorities for storage of flammable chemicals.</p>
74	Sufficient number of fire extinguishers shall be provided near the plant and storage area	<p><b>Complied</b></p> <p>Unit has provided a total <b>220</b> numbers of fire extinguishers near the plant and storage area. The fire extinguishers are installed in all the process plants such as ethylation &amp; propylation section, Warehouse Plant as well as in ETP, OHC, Admin, Canteen etc. It is installed on every floor in the premises.</p>
75	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic hazardous chemicals	<p><b>Complied</b></p> <p>Unit is ensuring to take necessary precautions as per the prevailing rules of government authorities for storage and handling of toxic and hazardous chemicals</p>
76	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities	<p><b>Complied</b></p> <p>Unit will ensure to maintain optimum quantities of toxic / hazardous chemicals. All necessary permissions are obtained in this regard before commencing the expansion activities.</p>

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77	The project management shall ensure to comply with all the environmental protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	<b>Complied</b>  The unit has adhered to the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment Report. The letter submitted to DISH for Risk Assessment Report, Safety Audit Report, QRA study. The same has been attached in The unit has implemented all preventive and mitigation measures suggested in the Risk Assessment Report.
78	Only flameproof electrical fittings shall be provided in the plant premises	<b>Complied</b>  Unit has installed flameproof electrical fittings in the plant premises.
79	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks/containers instead of one single large capacity tank/container.	<b>Complied</b>  Separate Hazardous materials storage areas with dyke walls are provided. Photo of dyke wall attached as below: 

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80	As the storage tanks shall be lifted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals	<b>Complied</b>  Unit has installed necessary engineering controls to avoid leakages and hazardous chemical storage tanks have been installed inside a Bund/ dyke wall.																																			
81	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs	<b>Complied</b>  Unit has taken all necessary measures to minimize the human exposure to hazardous chemicals by closed loop pumping / vacuum transfer.																																			
82	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency	<b>Complied</b>  In case of emergencies, the unit has arrangements with nearby healthcare units and doctors for immediate medical attention, and also has an on-site Occupational Health Center (OHC) equipped with full medical facilities, staffed by factory medical officers, and further maintains a tie-up with a hospital as documented below table. <table><tr><th colspan="5">External Hospitals Tie UP Contact No.</th></tr><tr><th>Sr no.</th><th>Name Of Hospital</th><th>Address of Hospital</th><th>External No.</th><th>Contact no.</th></tr><tr><td>1</td><td>Apex hospital</td><td>Adarsh Market, Panchbatti, Bharuch</td><td>02642-265800</td><td>Dr Asma (9158059220)</td></tr><tr><td>2</td><td>7X Multispeciality Hospital</td><td>4th Floor, 7X Corridor, Soneri Mahal Rd, opp. Motilal Vin Baug, nr. Panchbatti, Bharuch</td><td>9824143278</td><td>Hardish Patel(7990857930) Nikunj</td></tr><tr><td>3</td><td>Baroda heart multi speciality hospital</td><td>Capital business centre Panchbatti, Bharuch</td><td>02642-260551 / 552</td><td>-</td></tr><tr><td>4</td><td>Healing touch hospital</td><td>Doctor house,behind plaza hotel, Bharuch</td><td>02642-262500</td><td>-</td></tr><tr><td>5</td><td>Celestial Wellness Solutions Pvt.Ltd</td><td>3rd Floor Nexus Business Hub</td><td>9377410261</td><td>Dr.Tanvi Dalal</td></tr></table>	External Hospitals Tie UP Contact No.					Sr no.	Name Of Hospital	Address of Hospital	External No.	Contact no.	1	Apex hospital	Adarsh Market, Panchbatti, Bharuch	02642-265800	Dr Asma (9158059220)	2	7X Multispeciality Hospital	4th Floor, 7X Corridor, Soneri Mahal Rd, opp. Motilal Vin Baug, nr. Panchbatti, Bharuch	9824143278	Hardish Patel(7990857930) Nikunj	3	Baroda heart multi speciality hospital	Capital business centre Panchbatti, Bharuch	02642-260551 / 552	-	4	Healing touch hospital	Doctor house,behind plaza hotel, Bharuch	02642-262500	-	5	Celestial Wellness Solutions Pvt.Ltd	3rd Floor Nexus Business Hub	9377410261	Dr.Tanvi Dalal
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				Above Dhiraj Sones,Maktampur, Bharuch		
		6	Palmaland Hospitals	Falshruti Nagar, Station Road, Bharuch	9925802555	Dr.Wasim Raj (9925802555) Suhana Kureshi(901675643 9)
83	Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.	<b>Complied</b>  Unit has maintained around 50 types of Personal Protective Equipment (PPEs) and provided the same to workers. Unit has encouraged and ensured that PPE's are used by workers as per the requirement for a particular job role. PPEs- Helmet, Goggles, Safety Shoes, Full body safety suit, Double anchored safety harness, Cartridge mask, antistatic hand gloves, bubble hood etc.				
84	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	<b>Complied</b>  10 Numbers of First Aid Box are available and required Antidotes (Methylene Blue, Dipotherene, etc) for the chemicals used in the unit are available in OHC at site. Photo of the first aid box attached as below :				

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First Aid Box

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85 Training shall be imparted to all the workers on safety and health aspects of chemicals handling.

**Complied**

Training is given to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees are done on a regular basis. Training to all employees on handling chemicals is imparted regularly.

Training sheet is attached as below :

Aarti Industries Limited Training/Meeting Attendance Sheet						
Session Title:		Sustainability One Day Mandatory Training				
Date:	20/07/2024	Duration:	8 Hrs			
Site:	Dahej	Division/Plant:	AB			
Trainer:	Manoj Pandey, Hiten Patel					
Sr. No.	Employee Code	Name	Designation	Function	Division	Signature
1	59000369	Vishal Jashi	Fire	Safety	Diamond	V.Jashi
2	59000686	Sufiyam Rajwade	Male nurse	Safety	Saffron	12/23
3	59000619	Sachin Patel	Fire	Safety	Diamond	Dipak
4	59000339	Kavi Upadhyay	Fireman	Safety	Neo	12/23
5	59001557	Zena Waring	Process	Tech	Diamond	12/23
6	59001239	Sunand R. Rathod	MECH	MECH	Diamond	12/23
7	59000578	Latif R. Kazi	DCS OPER	Process	Diamond	12/23
8	59000749	Gohil Kishor P	TECH	Process	Diamond	12/23
9	59001800	Jamini Bapat	Tech	mech	Diamond	12/23
10	59001833	Ahix Jaimish M	Tech	mech	Diamond	12/23
11	59001108	Chirag Machhi	Tech	Mech	"	Machhi CM
12	59002160	Hitesh Jashi	OPR	E.T.P	Neo	12/23
13	59001872	Tarun Munshi	OPR	E.T.P	Diamond	12/23
14	59001924	Bhavit chatur	Tech	Instrumentation	Diamond	12/23
15	59001937	Rishi Rajiv	A.T	Utility/med	Saffron	12/23
16	59000411	Gaurabh Kumar	SR Tech	MECH	Diamond	12/23
17	59001187	Chandana Aja	Tech	mech	Diamond	12/23
18	59001143	Narain Machhi	SR Tech	"	"	12/23
19	59001687	ANKUR PATEL	TECH	"	"	12/23
20						
21						
22						
23						
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25						
26						
27						
28						
29						
30						
31						
Remarks:						
Sign of HR	Pawar Sagar		Sign of Faculty	Hiten - Patel		



**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

86	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.	<p><b>Complied</b></p> <p>Occupational health surveillance of the workers is carried out on a half yearly basis and records are maintained as per the factory act.</p> <p>Following check up has been carried out in periodical medical checkup.</p> <ul style="list-style-type: none"> <li>- General checkup (height, weight, pulse, BP etc)</li> <li>- Blood test ( RBC, WBS, hemoglobin, platelets, blood group, differential count, G6PD etc)</li> <li>- Urine test (physical, chemical and microbial examination etc)</li> <li>- Vision test</li> <li>- Pulmonary function test</li> <li>- Audiometry</li> <li>- ECG</li> <li>- met Hb for specific workers</li> </ul> <p>Details of health surveillance of the employees and contract workers are given below and attached as <a href="#">Annexure-34</a>.</p>
87	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	<p><b>Complied</b></p> <p>Hazardous chemicals transported as per the Motor Vehicle Act and Rules. Copy of Checklist attached as <a href="#">Annexure-36</a></p>
88	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	<p><b>Complied</b></p> <p>The unit has implemented all preventive and mitigation measures suggested in the Risk Assessment Report</p>
89	Necessary permissions from various statutory authorities like PESO Factory Inspectorate and others shall be obtained prior to commissioning of the project	<p><b>Complied</b></p> <p>Unit has obtained Factory License No.24007 and it is attached as <a href="#">Annexure-28</a></p>
<b>B.2.5 NOISE:</b>		
90	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls	<p><b>Complied</b></p>

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

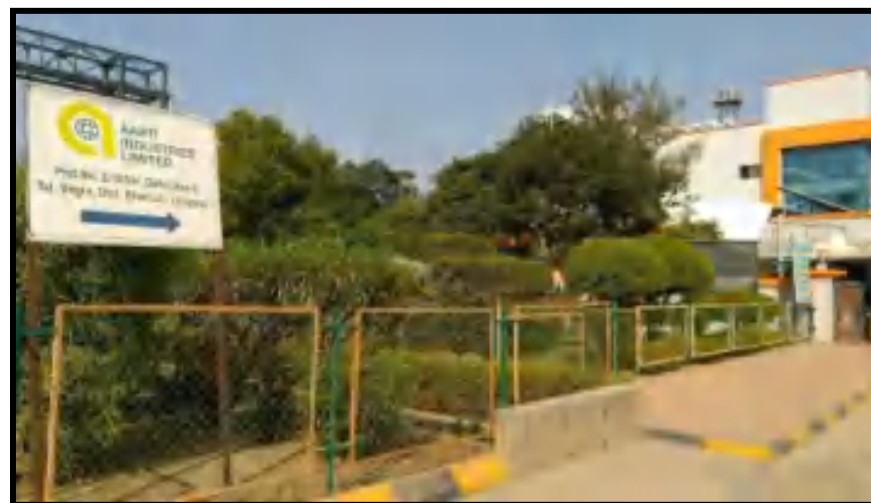
	like acoustic insulation hoods, silencers, enclosures etc on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	The Unit has taken necessary noise control measures by providing engineering controls like acoustic insulation hood, silencers, enclosures etc on all sources of noise generation. Unit is monitoring noise level month wise in the operation phase.
<b>B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION:</b>		
91	The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	<b>Complied</b>  Cleaner Production Assessment study has been carried out by an approved institute of Pacific School of Engineering, Surat Approved by AICTE, New Delhi & Affiliated to GTU, Ahmedabad. Certificate for the same is attached as <a href="#">Annexure-32</a>
92	The company shall undertake various waste minimization measures such as	
a.	Metering and control of quantities of active ingredients to minimize waste	<b>Complied</b>
b	Reuse of by-products from the process as raw materials or as raw materials substitutes	<b>Complied</b>
c	Use of automated and close filling to minimize spillage	<b>Complied</b>
d	Use of close feed system into batch reactors	<b>Complied</b>
e	Venting equipment through vapor recovery system	<b>Complied</b>
f	Use of high pressure hoses for cleaning to reduce wastewater generation.	<b>Complied</b>
g	Recycling of washes to subsequent batches	<b>Complied</b>
h	Recycling of steam condensate	<b>Complied</b>
i	Sweeping/mopping of floor instead of floor washing to avoid effluent generation	<b>Complied</b>
j	Regular preventive maintenance for avoiding leakage, spillage etc	<b>Complied</b>
<b>B.2.7 GREEN BELT AND OTHER PLANTATION:</b>		
93	The unit shall develop green belt within premises as per the CPCB guidelines However if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC	<b>Complied</b>  The unit has developed a greenbelt within the premises as per the guidelines of CPCB.

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

estate or any other open areas in consultation with the GIDC/GPCB and submit an action plan of plantation for next three years to the GPCB

Total area of plot :- 50148 m2  
Greenbelt within Plant Premises :- 12890 m2 ,  
Greenbelt at common plot of Dahej SEZ II & opposite to tatva chintan :- 3659 m2  
Total Green Belt :- 16549 m2

Photos for same are attached as below:



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94

Drip irrigation/low-volume, low-angle sprinkler system shall be used for the green belt development within the premises

**Complied**

Unit has provided a low-angle sprinkler system for the green belt development within the premises.

Photo of Drip Irrigation system is attached as below:



**Drip Irrigation system**

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95	The PP shall develop green belt [10994 4 m2 (21.92%) inside plant premises 1896 m2 (3 78%) at boundary side and 3659 m2 (7.3%) in Common Plot in Dahej SEZ-II Total: 16549 Sq.m) ie 33% of total plot area) as per the undertaking submitted before SEAC Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.	<b>Complied</b>
<b>B.3 OTHER CONDITION:</b>		
96	The projects covered under category 5(f) shall undergo the safety and environment audit regularly as per the standards laid down by the GPCB and CPCB	<b>Complied</b>  The projects is covered under category 5(f) undergo the safety and environment audit regularly as per the standards laid down by the GPCB and CPCB
97	PP shall carry out the safety audit and Risk Assessment Report as per the prevailing guidelines of safety.	<b>Noted &amp; Complied</b>
98	Management of Fly Ash shall be as per the Fly Ash Notification 2009 & is amendment from time to time and I shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	<b>Complied</b>  Fly Ash notification compliance report is attached as <a href="#">Annexure- 22</a>
99	EMP should invariably include provisions for environmental Monitoring and measures for noise pollution control measures	<b>Complied</b>
100	In EMP proponent should separately indicate majors of occupational health, fire and safety measures	<b>Complied</b>
101	Prior EC is granted is subject to the proponent receiving all statutory permission/clearances/certificates and membership of respective agencies/authorities whichever applicable. Proponent shall inform progress from time to time in six monthly compliance reports to MOEFCC/SEIAA/SEAC/GPCB failing to which this provisional EC will stand withdrawn.	<b>Complied</b>
102	Wherever waste water or chemical water to be collected by tankers and transported to CETA etc. any diversion and disposal in open drainage (nallah) etc. causing human and environmental damage or loss will make it liable for action	<b>Complied</b>



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	under the law	
103	All transport movement by tankers etc has to be done with maintenance of gate pass and logbook it should be verified by the inspecting authorities.	<b>Noted</b>
104	Non-hazardous waste data shall be informed to GPCB time to time so as to make an assessment and tie-up with industry for generating sustainable power from the waste.	<b>Complied</b>
105	All chemical pharma industries etc. should ensure predictive and preventive maintenance of factory boilers and reactive shows to avoid incidents of fire and safety hazards.	<b>Complied</b> Unit ensures periodic predictive and predictive maintenance of boilers installed at site.  Unit is scheduled in the SAP system for preventive maintenance of critical assets in the plant.
106	EMP should include STP and detail cost including maintenance, transportation of waste water to CETP/CMEE etc. as well as transportation cost or transit cost.	<b>Noted</b>
107	In LDAR preventive and predictive maintenance plan.	<b>Complied</b>  As per CPCB guidelines, Unit has installed Instrumental methods for measurement of VOC detection at various locations to identify leak detection in plant areas to arrest on priority basis. List of located devices attached as <a href="#">Annexure-1</a> .
108	In LDAR leakage component, source of equipment leak, detention method should be given in table form.	<b>Complied</b>  As per CPCB guidelines, Unit has installed Instrumental methods for measurement of VOC detection at various locations to identify leak detection in plant areas to arrest on priority basis. We have different Instruments for the measurement of the VOC detection at the plant of different Places and all detectors are set as per the desired set point all are connected to the Hooter & DCS System.  List of located devices attached as <a href="#">Annexure-1</a> .
109	In storage component should be shown separately in terms whether inflammable toxic corrosive, reactive etc	<b>Complied</b>

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110	In case of Fly Ash generation its management and disposal should be as per Government of India Notification and 100% utilization should be ensured.	<b>Complied</b>
111	Project proponent shall install all environment management systems as per the CPCB/GPCB directives regarding effluent discharge and air emission in working condition.	<b>Complied</b>
112	Project proponent shall display the copy of Environment Clearance at the site prominently	<b>Noted</b>
113	Project proponent shall prepare and follow regular and preventive maintenance plans. The copy of the same shall be submitted to SEIAA.	<b>Noted</b>
114	Project Proponent will have to display the safety procedure in the working area.	<b>Complied</b>
115	The project proponent shall obtain all required permissions for safety, health and fire from competent authorities PESO/Fire Authority etc. and intimate SEIAA.	<b>Complied</b> The unit has obtained a certificate issued from PESO, which is attached as <a href="#">Annexure-25</a> , regarding the Nitrogen License valid until September 30, 2027.
116	Project Proponent will intimate SEIAA/SEAC/GPCB after obtaining the membership of common facilities like CETP/TSDf, CHWIF/CMEP/Common Spray Dryer as the case September be.	<b>Complied</b> Unit has valid membership of the TSDf(BEIL), SEPPL and RSPL. Copies of membership certificates are attached as <a href="#">Annexure-19</a>
117	Extra care will be taken by PP to avoid any accidental blast in boiler, reactor or any machinery in the plant	<b>Complied</b> Unit will take extra care to avoid any accidental blast in the boiler,reactor or any machinery in the plant.
118	Environment monitoring, training and disaster management plan should be undertaken and complied at regular intervals.	<b>Complied</b>
119	Integrated Regional Office of MoEF&CC Gandhinagar and GPCB will monitor all environment safety & health norms as per the prevailing rules.	<b>Noted &amp; Complied.</b>



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120	The PP has to maintain the log sheets/ registers/ manifest/ gate pass for discharge through tankers and SCADA system for pipeline discharge for the waste water generation and is disposal data and submit to the GPCB every quarter GPCB shall verify the same on regular basis and inform SEIAA and take legal action in the cases of non compliance.	Noted & Complied.		
121	Unit shall comply with all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no F No 22-34/2018-1A III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no XX).	Complied  The compliance report for same is Attached as <a href="#">Annexure-29</a>		
122	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance with the MoEFCC's Office Memorandum No No.22-65/2017-1A. Ili dated 01/05/2018 to carry out the activities under CER in affected arca around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.	Complied  Unit has allocated a separate fund for Corporate Environment Responsibility (CER) activities to carry out activities.		
		Name of Associated NGO	Nature of Work	Amount (Rs)
		Ramdev Electronics (C/o Jan seva & Charitable Trust)	Donation of BPL Smart LED 55 inch TV to School	40,000
		Happy Home	Distribution of 200 Water Bottle (per pieces price 180)for Lakhigam School	42,480
		Gram Vikas Trust	Donation for Aarti Play group school at village Dahej & Mira nagar Ankleshwar	741,256
		Gram Vikas Trust	Donation for Vidya Sarthi Project	250,000
		Total :		1,073,736
123	Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the Ls activities of the project to conserve	Complied		

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	fresh water as well as to recharge ground water Before recharging the surface run off pre-treatment must be done to remove suspended matter.	
124	The unit shall join and participate financially and technically for any common environmental facility/infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt./GIDC.	<b>Complied</b>  Unit has a proper rainwater harvesting system nearby the admin and boiler area.
125	Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided	<b>Complied</b>  Solar energy has been incorporated for illumination of common areas and lighting which is available on OHC and Admin building.   <p align="center"><b><u>Admin Building Solar Panel</u></b></p>
126	The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	<b>Complied</b>
127	All the commitments/undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to	<b>Complied</b>
128	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.	<b>Complied</b>  The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.

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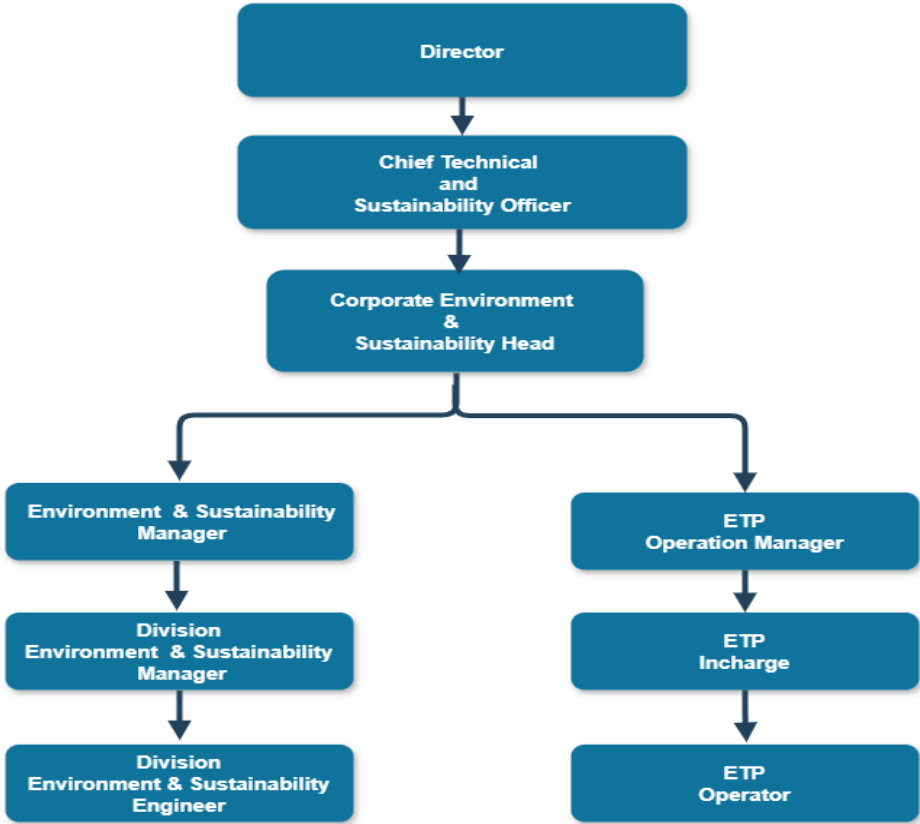
129	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved	<b>Complied</b>  In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved
130	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB) State Government and any statutory authority.	<b>Complied</b>  Unit has strictly adhered to the commitments/ undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management.
131	During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or stormwater.	<b>Noted</b>
132	Pucca flooring/impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	<b>Complied</b>  Pucca flooring/impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
133	Leakages from pipes, sumps shat be minimal and if occurs, shall be arrested promptly	<b>Complied</b>  Leakages from pipes, sumps are minimal and if occurs, it is arrested promptly.
134	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	<b>Complied</b>  No further expansion or modifications in the plant likely to cause environmental impacts is carried out without obtaining prior Environment Clearance from the concerned authority.
135	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules	<b>Complied</b>  The above conditions has enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules. PLI policy attached as <a href="#">Annexure-31</a>

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136	The project proponent shall comply with all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	<b>Complied</b>
137	The project management shall ensure that the unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as prepared by project proponent.	<b>Noted and Complied</b>
138	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well GRI along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not for any other purpose.	<b>Complied</b>
139	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA the couples of the clearance letter are available with the GPCB and September also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	<b>Noted.</b> Due to oversight, the advertisement of EC was not published within the stipulated time period. We deeply regret not publishing the advertisement of EC within the stipulated time period.
140	It shall be mandatory for the project management to submit a half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authorities concerned, on 1st October and 1st December of each calendar year.	<b>Complied.</b>  Last compliance report was submitted on 13.11.2024 for the period of April-2024 to September-2024 to SPCB & MoEF&CC. Copy of the same is attached herewith as <a href="#">Annexure-30.</a>
141	Concealing factual data or submission of false fabricated data and failure to comply with any of the conditions mentioned above September result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act,1986.	<b>Noted</b>
142	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<b>Complied</b>  Our unit is adhering to the stipulation made by the Gujarat Pollution Control Board.

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143	The SEIAA September revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	<b>Noted</b>
144	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary	<b>Noted</b>
145	The project authorities shall inform the GPCB. Regional Office of McEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	<b>Complied</b>
146	This environmental clearance is valid for Ten years from the date of issue	<b>Noted</b>
147	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act. 2010.	<b>Noted</b>
148	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance canceled.	<b>Noted</b>
<b>B.4 COMPLIANCE OF ENVIRONMENT CLEARANCE/REPORTING/ADMINISTRATION/APPEAL:</b>		
149	Project proponent shall inform all the concerned authorities including Municipal Corporation and District Collector and shall also give wide publicity through advertisement Environment Clearance order accorded minimum two local newspapers within seven days, about the Environmental Clearance order accorded.	<b>Noted</b>
150	Project proponent shall appoint a key person to the organization who shall be responsible for compliance of adhoc conditions fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance Any change in key person shall immediately be informed to SEIAA and all concerned authorities..	<p><b>Complied</b></p> <p>Environment Management Unit/Cell is shown below:</p> <p>An experienced environmental engineer holding a BE (Environmental Engineering) degree has been deputed to monitor the environmental management systems along with a supporting zonal team of 4 Environmental Engineers and a Manager. A centralized environment cell stationed at the Corporate office headed by a Vice President under a team of Chief Manager, Senior Manager and 4 engineers who drives and monitors environment policy and performance.</p> <p>Structure of environment management cell is attached below :</p>

		 <pre> graph TD     Director[Director] --&gt; CTSO[Chief Technical and Sustainability Officer]     CTSO --&gt; CESH[Corporate Environment &amp; Sustainability Head]     CESH --&gt; EMSM[Environment &amp; Sustainability Manager]     CESH --&gt; ETPO[ETP Operation Manager]     EMSM --&gt; DESM[Division Environment &amp; Sustainability Manager]     DESM --&gt; DESE[Division Environment &amp; Sustainability Engineer]     ETPO --&gt; ETPI[ETP Incharge]     ETPI --&gt; ETO[ETP Operator]         </pre>
151	Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC GPCB and Nodal Department of the Government.	<p><b>Complied</b></p> <p>Last compliance report was submitted on 13.11.2024 for the period of April-2024 to September-2024 to SPCB &amp; MoEF&amp;CC.</p> <p>Copy of the same is attached herewith as <a href="#">Annexure-30.</a></p>

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

152	The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliances of environment clearance conditions	<b>Noted</b>
153	In case of violation reported upon, the project proponent shall be responsible for all the legal actions as par Environment Protection Act 1986 including SEIAA September cancel, withdraw or keep in abeyance, the Environment Clearance accorded.	<b>Noted</b>
154	Any person including the project proponent affected by this Environment Clearance order September file an appeal to Honorable National Green Tribunal West Zone branch Pune, preferably within a period of thirty days from the date of issue of Environment Clearance as prescribed under section 16 of National Green Tribunal Act 2010.	<b>Noted</b>
155	All complaints and public grievances or representations September be addressed to SEIAA/SEAC in the email addresses (a) mase aagi@gmail com& (b) seacgujarat@gmail.com.	<b>Noted</b>

**Compliance report of Environmental Clearance File SEIAA/GUJ/EC/5(f)/173 Dated . 05/07/2013.**



**October-2024 to March-2025**

	Name of product / by-product	Capacity in MT/ Month	Compliance Status	Remarks			
1	Ethylation and Propoylation Products	1500	Complied		The latest CCA copy is attached as <a href="#">Annexure-A</a> .  The unit is having a valid EC for same attached as <a href="#">Annexure-B</a>		
	Production (MT)						
	Month		2-Methyl I, 6-Ethyl Aniline (MEA)	2,6 - Diethyl Aniline (DEA)		3-Methyl I 2-6 Diethyl Aniline (DEMA)	Total Ethylation and Propoylation Products
	October 2024		1299	0		0	1299
	November 2024		1293	0		0	1293
	December 2024		1131	0		367	1131
	January 2025		699	199.5		32	699
	February 2024		1980.48	13		0	1980.48
	March 2025		1495	163		0	1495
	Remarks:- All the six months production is under the consented quantity. Unit has not produced Isopropyl Aniline and 2, 6 Diisopropyl Aniline, 2- Methyl-6-Isopropyl Aniline and 4- Methyl 2,-6 Di-isopropyl Aniline during October-2024 to March-2025.						
2	Hydrogenated Products	500	NIL		Presently the unit is not doing the Hydrogenation process. The unit has converted		
	Ortho Toluidine						
	Chloro Aniline						
	DiChloro Aniline						



	TriChloroAniline			partial EC to CCA. CCA for this group is not taken. CCA copy is attached as <a href="#">Annexure-A</a> .														
	Ortho Phenylene Diamine																	
	Phenylene Diamine																	
	3,4 Diamino Diphenyl Ether																	
	4,4 Diamino Diphenyl Ether																	
3	Chlorination Products			NIL														
	Monochloro Benzene	1250																
	Ortho Dichlorobenzene	800																
	Para Dichloro Benzene	1200																
By Products																		
4	Calcium Chloride (90% basis)* or HCL(30%)	2416.54 or 4844.22		—														
5	Al(OH) <sub>3</sub> or Al <sub>2</sub> O <sub>3</sub>	122.1 Or 79.65	<table><tr><th>Month</th><th>Aluminum Hydroxide (Al(OH)<sub>3</sub>) (MT)</th></tr><tr><td>October 2024</td><td>438.62</td></tr><tr><td>November 2024</td><td>256.83</td></tr><tr><td>December 2024</td><td>1196.9</td></tr><tr><td>January 2025</td><td>536.85</td></tr><tr><td>February 2025</td><td>951.15</td></tr><tr><td>March 2025</td><td>913.75</td></tr></table>	Month	Aluminum Hydroxide (Al(OH) <sub>3</sub> ) (MT)	October 2024	438.62	November 2024	256.83	December 2024	1196.9	January 2025	536.85	February 2025	951.15	March 2025	913.75	Aluminum hydroxide Quantity revised to 12168 MT/Annum as per CCA No. AWH-116900 attached as <a href="#">Annexure-A</a> .
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6	HF	19.5	0	EC not converted into CCA.														
7	H <sub>3</sub> BO <sub>3</sub>	20.25	0	CCA copy is attached as <a href="#">Annexure-A</a> .														
Total		7785.94 MT/ Month or 10256.07 MT/ Month	Average production of <b>1316.25 MT/Month</b> in the compliance period (October-2024 to March-2025).															

Sr. No.	EC conditions	Compliance status																												
A	Specific Condition																													
1	<p>Fresh water requirement shall not exceed 614.6 KL/day and it shall be met by water supply of the Dahej SEZ. Metering of water shall be done and record of daily water consumption shall be maintained. No ground water shall be used for the project.</p> <p>As per Amended EC No. SEIAA/GUJ/EC/5(f)/547/2019, dated 10-04-2019 and Condition No. 1</p> <p>Total water requirement for the project shall not exceed <b>1186.5 KLD</b>. Unit shall reuse 171.5 KLD of wastewater. Hence fresh water requirement shall not exceed 1186.5 KLD and it shall be met by the water supply system of the Dahej SEZ. Metering shall be done and records of daily water consumption shall be maintained. No ground water shall be used for the project. Prior permission from the concerned authority shall be obtained for withdrawal of water</p>	<p><b>Compiled.</b></p> <p>The tabular data below indicate that unit has not exceeded the prescribed limit for water consumption i.e. 1186.5 KLD. Metering facilities have been provided along with flowmeters and the records are maintained for water consumption. The data of the last six months of water consumption as per GIDC bill is given in the following table.</p> <table><tr><th>Particular</th><th>Oct 2024</th><th>Nov 2024</th><th>Dec 2024</th><th>Jan 2025</th><th>Feb 2025</th><th>Mar 2025</th></tr><tr><td>Fresh Water Consumptions KLD</td><td>798.47</td><td>798.47</td><td>798.47</td><td>798.47</td><td>712.13</td><td>771.13</td></tr><tr><td>Recycled Water (RO Permeate + MEE Condensate ) Consumptions KLD</td><td>125.4</td><td>228.1</td><td>191.4</td><td>191.6</td><td>154.2</td><td>192.4</td></tr><tr><td>Total Water Consumptions KLD</td><td>923.87</td><td>1026.57</td><td>989.87</td><td>990.07</td><td>866.33</td><td>963.53</td></tr></table> <p>The water consumption is within the prescribed limit.</p> <p>The water consumption is within the prescribed limit. Water bill of the same is attached as <a href="#">Annexure-7</a></p> <p>In addition to this, the unit is also maintaining a logbook for the water consumption day-to-day basis. Photographs of water meter are provided below:</p>	Particular	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Fresh Water Consumptions KLD	798.47	798.47	798.47	798.47	712.13	771.13	Recycled Water (RO Permeate + MEE Condensate ) Consumptions KLD	125.4	228.1	191.4	191.6	154.2	192.4	Total Water Consumptions KLD	923.87	1026.57	989.87	990.07	866.33	963.53
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		  <p style="text-align: center;"><u><b>water meters</b></u></p>																							
2	<p>Industrial effluent generation shall not exceed 86.85 KL/day whereas domestic wastewater generation shall not exceed 7 KL/day.</p> <p><b>As per Amended EC No. SEIAA/GUJ/EC/5(f)/547/2019, dated 10-04-2019 and condition no 2.</b></p> <p>Industrial effluent generation shall not exceed 165.85 KLD whereas domestic wastewater generation shall not exceed 7 KLD.</p> <p><b>As per Amended EC No. SEIAA/GUJ/EC/5(f)/2630/2022 on 07/11/2022 and condition no 9 &amp; 11.</b></p> <p>Industrial effluent generation shall not exceed 724 KLD. KLD whereas domestic wastewater generation shall not exceed 57 KLD.</p>	<p><b>Complied</b></p> <p>The Industrial effluent generation has not exceeded 724 KLD whereas domestic wastewater generation has not exceeded 57 KLD. The total average of last six month data has been given in the table below:</p> <table border="1"> <thead> <tr> <th rowspan="2">MONTH</th><th>Industrial Effluent generation</th><th>Domestic Waste Water generation</th></tr> <tr> <th>KLD</th><th>KLD</th></tr> </thead> <tbody> <tr> <td>October 2024</td><td>157.2</td><td>34.0</td></tr> <tr> <td>November 2024</td><td>255.8</td><td>31.0</td></tr> <tr> <td>December 2024</td><td>243.6</td><td>30.9</td></tr> <tr> <td>January 2025</td><td>212.9</td><td>27.3</td></tr> <tr> <td>February 2025</td><td>176.3</td><td>19</td></tr> <tr> <td>March 2025</td><td>209.1</td><td>18</td></tr> </tbody> </table> <p>The water generation data is within the limit.</p>	MONTH	Industrial Effluent generation	Domestic Waste Water generation	KLD	KLD	October 2024	157.2	34.0	November 2024	255.8	31.0	December 2024	243.6	30.9	January 2025	212.9	27.3	February 2025	176.3	19	March 2025	209.1	18
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3	<p>Effluent to the tune of 25.85 KL/day (16.45 KL/day of process and washing effluent after solvent recovery by distillation, 2.4 KL/day of scrubber effluent and 7 KL/day of domestic wastewater) shall be treated in the ETP comprising of primary, secondary and tertiary treatment facilities.</p> <p><b>As per Amended EC No. SEIAA/GUJ/EC/5(f)/2630/2022 on 07/11/2022 and condition no 10.</b></p> <table><tr><td>Management of Industrial effluent shall be as under:</td></tr><tr><td>47 KLD effluent generated from process, washing and scrubber shall be in primary, secondary &amp; tertiary ETP followed by RO-III. 33 KLD RO III permeate shall be reused within premises.</td></tr><tr><td>677 KLD effluent generated from boiler, cooling tower and DM reject shall be treated in primary ETP followed by RO- 507 KLD RO-I permeate shall be reused within premises and 170 KLD RO-I reject shall be treated in RO-L 119 KLU RO-II permeate shall be reused within premises.</td></tr><tr><td>14 KLD RO-III reject and 51 KLD RO-II reject shall be treated in MEE/ATFD 60 KLD MEE condensate shall be reused within premises.</td></tr></table>	Management of Industrial effluent shall be as under:	47 KLD effluent generated from process, washing and scrubber shall be in primary, secondary & tertiary ETP followed by RO-III. 33 KLD RO III permeate shall be reused within premises.	677 KLD effluent generated from boiler, cooling tower and DM reject shall be treated in primary ETP followed by RO- 507 KLD RO-I permeate shall be reused within premises and 170 KLD RO-I reject shall be treated in RO-L 119 KLU RO-II permeate shall be reused within premises.	14 KLD RO-III reject and 51 KLD RO-II reject shall be treated in MEE/ATFD 60 KLD MEE condensate shall be reused within premises.	<p>Compiled.</p> <p>The unit is a Zero liquid discharge unit.The effluent coming from various plants are collected and treated in ETP consists of :</p> <p>Primary Treatment: Stripper, 3 layer separation tank, Equalization tank, Flash Mixer (Coagulation), Flocculation Tank, Lamella Settler.</p> <p>Secondary Treatment: Aeration Feed Tank, Aeration Tank, Secondary Clarifier</p> <p>Tertiary Treatment: RO, MEE &amp; ATFD.</p> <p>ZLD Flow diagram attached in <a href="#">Annexure :8</a></p> <p>And further treatment in RO followed by MEE &amp; ATFD. The details of wastewater generation are given below.</p> <table><tr><th>Particular</th><th>Unit</th><th>Oct 2024</th><th>Nov 2024</th><th>Dec 2024</th><th>Jan 2025</th><th>Feb 2025</th><th>Mar 2025</th></tr><tr><td>Process Effluent</td><td rowspan="4">Total KLD</td><td>9.9</td><td>24.0</td><td>29.2</td><td>15.8</td><td>8.9</td><td>2.6</td></tr><tr><td>RO Permeate</td><td>121.8</td><td>214.8</td><td>182.1</td><td>180</td><td>159.3</td><td>178.3</td></tr><tr><td>MEE Condensate</td><td>3.7</td><td>13.2</td><td>9.3</td><td>11.5</td><td>5.9</td><td>7.9</td></tr><tr><td>Total Water Recycled to Cooling Tower</td><td>125.5</td><td>228</td><td>191.4</td><td>191.5</td><td>165.2</td><td>186.2</td></tr></table> <p>Domestic Effluent is being treated in STP and treated water is being used for Gardening for that the unit has obtained CTO No. AWH-112729 dated 15/06/2021</p>	Particular	Unit	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Process Effluent	Total KLD	9.9	24.0	29.2	15.8	8.9	2.6	RO Permeate	121.8	214.8	182.1	180	159.3	178.3	MEE Condensate	3.7	13.2	9.3	11.5	5.9	7.9	Total Water Recycled to Cooling Tower	125.5	228	191.4	191.5	165.2	186.2
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4	<p><b>EC Condition as per EC 2013.</b></p> <p>25.85 KL/day of treated effluent from ETP, 20 KL/day</p>	<p>Complied</p>																																									

<p>of D.M generation effluent, 13 KL/day of boiler blow-down and 35 KL/day of cooling tower blow-down; i.e total 93.85 KL/day of effluent shall be passed through RO system. RO permeate water to the tune of 70.35 KL/day shall be reused in cooling tower whereas RO reject water to the tune of 23.5 KL/day shall be evaporated completely with the help of MEE. Hence, there shall be no effluent discharge from the unit.</p> <p><b>As per Amended EC #SEIAA/GUJ/EC/5(f)/547/2019 dated 10-04-2019 and condition no. 4.</b></p> <p>25.85 KLD of treated effluent from ETP, 50 KLD of DM generation effluent, 62 KLD of boiler blow down and 35 KLD of cooling tower blowdown i.e. Total 165.85 KLD of effluent shall be passed through RO system (Cap. 150 KLD + 60 KLD) and MEE (Cap. 60 KLD). RO Permeate (129 KLD) and MEE condensate (42.5 KLD) water to the tune of 171.5 KLD shall be reused in the cooling tower. Hence there shall be no effluent discharge from the unit.</p>	<table><tr><th>Particular</th><th>Unit</th><th>Oct 2024</th><th>Nov 2024</th><th>Dec 2024</th><th>Jan 2025</th><th>Feb 2025</th><th>Mar 2025</th></tr><tr><td>Process Effluent</td><td rowspan="4">Total KLD</td><td>9.9</td><td>24.0</td><td>29.2</td><td>15.8</td><td>8.9</td><td>2.6</td></tr><tr><td>Utility Effluent</td><td>147.3</td><td>231.8</td><td>214.4</td><td>197.1</td><td>167.4</td><td>206.5</td></tr><tr><td>Total Effluent Generation</td><td>157.2</td><td>255.8</td><td>243.6</td><td>212.9</td><td>176.3</td><td>209.1</td></tr><tr><td>Total Water Recycled to Cooling Tower</td><td>125.4</td><td>228.1</td><td>191.4</td><td>191.6</td><td>154.2</td><td>192.4</td></tr></table>	Particular	Unit	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Process Effluent	Total KLD	9.9	24.0	29.2	15.8	8.9	2.6	Utility Effluent	147.3	231.8	214.4	197.1	167.4	206.5	Total Effluent Generation	157.2	255.8	243.6	212.9	176.3	209.1	Total Water Recycled to Cooling Tower	125.4	228.1	191.4	191.6	154.2	192.4		
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<p><b>Total Effluent Generation is a combination of Utility and Process effluent.</b></p> <p>Unit has Installed</p> <p><b>Primary Treatment:</b> Stripper, 3 layer separation tank, Equalization tank, Flash Mixer (Coagulation), Flocculation Tank, Lamella Settler</p> <p><b>Secondary Treatment:</b> Aeration Feed Tank, Aeration Tank, Secondary Clarifier</p> <p><b>Tertiary Treatment:</b> RO, MEE and ATFD. for Industrial Process Effluent.</p> <p>For Utility (CoolingTower/Boiler Blowdown and DM Reject) effluent installed multiple RO plants.</p> <p>SPRO: 200 KLD</p> <p>HP RO: 50 KLD</p> <p>All Permeate of RO and MEE condensate will be recycled back into the cooling tower and the unit has maintained the Zero liquid Discharge.</p>																																								
<table><tr><th colspan="3">ZLD Equipment RO, MEE &amp; ATFD</th></tr><tr><th>SR. No</th><th>Description</th><th>Existing Installed Capacity (KLD)</th></tr><tr><td>1</td><td>Effluent Treatment Plant</td><td>60</td></tr><tr><td>2</td><td>RO- Process (Chemical)</td><td>60</td></tr><tr><td>3</td><td>Utility RO-1</td><td>150</td></tr><tr><td>4</td><td>Utility RO-2</td><td>550</td></tr><tr><td>5</td><td>MEE &amp; ATFD</td><td>60</td></tr><tr><td>6</td><td>HP RO</td><td>50</td></tr><tr><td>7</td><td>SP RO</td><td>200</td></tr><tr><td>9</td><td>STP</td><td>60</td></tr><tr><td>10</td><td>Stripper</td><td>60</td></tr></table>								ZLD Equipment RO, MEE & ATFD			SR. No	Description	Existing Installed Capacity (KLD)	1	Effluent Treatment Plant	60	2	RO- Process (Chemical)	60	3	Utility RO-1	150	4	Utility RO-2	550	5	MEE & ATFD	60	6	HP RO	50	7	SP RO	200	9	STP	60	10	Stripper	60
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**ETP-60 KLD**



**Stripper-60 KLD**



**MEE & ATFD-60KLD**



**RO Process (Chemical)-60 KLD  
& HP RO-50KLD**



**SP RO-200KLD**



**Utility RO-1 - 150 KLD  
& Utility RO-2 - 550KLD**

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

5	Condensate water from MEE shall be completely reused in cooling towers.	<div>Complied.</div> <table><tr><td>Particular</td><td>Unit</td><td>Oct 2024</td><td>Nov 2024</td><td>Dec 2024</td><td>Jan 2025</td><td>Feb 2025</td><td>Mar 2025</td></tr><tr><td>Total Water Recycled to Cooling Tower</td><td>Total KLD</td><td>3.7</td><td>13.2</td><td>9.3</td><td>11.5</td><td>5.9</td><td>7.9</td></tr></table>	Particular	Unit	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Total Water Recycled to Cooling Tower	Total KLD	3.7	13.2	9.3	11.5	5.9	7.9
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6	The unit shall provide adequate ETP consisting of primary, secondary and tertiary treatment facilities, RO plant and MEE for treatment and disposal of wastewater. These facilities shall be operated regularly and efficiently so as to achieve and maintain zero discharge status.	<div>Complied.</div> <div>Unit has Installed adequate ETP consisting of</div> <div><b>Primary Treatment:</b> Stripper, 3 layer separation tank, Equalization tank, Flash Mixer (Coagulation), Flocculation Tank, Lamella Settler</div> <div><b>Secondary Treatment:</b> Aeration Feed Tank, Aeration Tank, Secondary Clarifier</div> <div><b>Tertiary Treatment:</b> RO, MEE and ATFD. for Industrial Process Effluent.</div> <div>For Utility (CoolingTower/Boiler Blowdown and DM Reject) effluent installed multiple RO plants.</div> <div>SPRO: 200 KLD</div> <div>HP RO: 50 KLD</div> <div>All Permeate of RO and MEE condensate will be recycled back into the cooling tower and the unit has maintained the Zero liquid Discharge.</div> <div>ZLD Flow diagram attach in <a href="#">Annexure :8</a></div> <div>ZLD details provided in condition no.4.</div>																
7	The unit shall not get GIDC underground drainage connection and strictly adhere to the zero discharge status.	<div>Complied.</div> <div>Being a ZLD unit, no effluent is sent to the GIDC drain. The certificate(undertaking) for disconnection of drainage connection issued by concerned authority on <b>18/04/2016</b> is attached as <a href="#">Annexure-3.</a></div> <div>Unit has obtained EC as EC no: SEIAA/GUJ/EC/5(f)/547/2019 dated 10-04-2019. Unit has obtained CTO AWH 112729 dated 15-06-2021 for ZLD.</div>																
8	The unit shall provide a metering facility, maintain records of effluent treated, reused and evaporated and furnish it to the GPCB from time to time.	<div>Complied.</div> <div>Magnetic flow meters are provided and records are maintained for effluent treated, reused and evaporated. The unit is submitting the data as a monthly partake and along with a hard copy for the same in GPCB.</div>																



		   
9	<p>Proper logbook of ETP, RO plant and MEE operations and also showing chemical consumption, power consumption, quantities of effluent treated, reused, evaporated reused etc. Shall be maintained and furnished to the GPCB from time to time.</p>	<p><b>Complied.</b></p> <p>The unit is maintaining the logbook of ETP, RO plant and MEE operations and chemical consumption, power consumption, quantities of effluent treated, reused, evaporated reused etc. and the same has been verified on the site. For that the unit is submitting the data as a monthly patrak in GPCB XGN.</p> <p>*Logbook Photos - ETP, RO &amp; MEE.</p>



AARTI INDUSTRIES LIMITED, DAHEJ														
ETP PLANT DAILY LOG BOOK														
Date: 06/09/23														
Flow (m3/Hr)			Tank Level (%)			Stage Wise pH Data								
Time	MEA to ETP	Feed in Aeration Tank	Sintex Tank	Equalization Tank	Aeration Feed Tank	ETP Outlet Tank	Eq. Tank	Flash Mixture-1	Flash Mixture-2	Primary	Aeration Tank	Secondary Clarifier	Final Tank	
07:00	—	0.50	00	00	75	70	—	8.65	8.11	7.90	7.57	6.29	7.0	
10:00	—	0.50	00	00	75	60	—	8.62	8.12	7.94	7.55	6.20	7.05	
13:00	—	0.50	00	00	70	55	—	8.68	8.15	7.90	7.58	6.20	6.95	
16:00	—	0.50	00	00	70	55	—	8.69	8.15	7.90	7.58	6.25	6.90	
19:00	—	0.50	00	00	70	55	—	8.70	8.16	7.95	7.59	6.25	6.90	
22:00	—	0.50	00	00	70	55	—	8.67	8.15	7.98	7.60	6.20	6.90	
05:00	—	0.50	00	00	70	55	—	8.67	8.15	7.98	7.60	6.20	6.90	
Filter Press Operation														
Start Time (AM/PM)	ETP Tank (AM/PM)	Filter Press Running (Hrs.)	Filter Press Feed Pump Pressure	Air Start Time AM / PM	Air Stop Time AM / PM	Filter Press Air Pressure	Sludge Generation (Nos. of Bags)	Treated Tank Level (%)	Sludge Bad Level (%)	Time (AM / PM)	Drain (Minute)	Lamella Settler	Secondary Clarifier	
10:00	—	—	—	—	—	—	—	70	50	—	—	—	—	
11:00	—	0.8	—	—	—	—	—	60	40	—	—	—	—	
12:00	16:30	1.30	—	16:20	16:30	—	—	65	40	—	—	—	—	
13:00	—	0.4.20	—	—	—	—	11.60	75	35	—	—	—	—	
14:00	—	—	—	2.10	04.40	—	—	75	35	—	—	—	—	
15:00	—	0.55	—	—	—	—	—	80	30	—	—	—	—	
Raw Material Consumption (Kg/Lit)														
Equipment Change Over Status														
Shift - A						Shift - B						Shift - C		
Pump Name	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Air Blower	✓	—	0.1m	✓	0.1m	✓	—	—	—	—	—	—	—	—
Aeration Feed Pump	213	—	213	—	213	—	—	—	—	—	—	—	—	—
Secondary CF Circulation Pump	215	—	215	—	215	—	—	—	—	—	—	—	—	—
Chemical Name														
Shift - A														
Shift - B														
Shift - C														
Total														
PAC (L)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CAUSTIC (L)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LIME (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
POLY (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DAP (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
UREA (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bi-Culture (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HCl (L)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Soda Ash (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jaggery (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—


## ETP LOG BOOK

DAILY LOG SHEET														
Aarti Industries Limited, Dahej (New Division)														
Date: 06/09/23														
Raw Material Consumption (Kg/Lit)														
Equipment Change Over Status														
Shift - A						Shift - B						Shift - C		
Pump Name	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Air Blower	✓	—	0.1m	✓	0.1m	✓	—	—	—	—	—	—	—	—
Aeration Feed Pump	213	—	213	—	213	—	—	—	—	—	—	—	—	—
Secondary CF Circulation Pump	215	—	215	—	215	—	—	—	—	—	—	—	—	—
Chemical Name														
Shift - A														
Shift - B														
Shift - C														
Total														
PAC (L)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CAUSTIC (L)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LIME (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
POLY (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
DAP (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
UREA (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bi-Culture (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HCl (L)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Soda Ash (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Jaggery (Kg)	—	—	—	—	—	—	—	—	—	—	—	—	—	—



## RO LOG BOOK

		<b>MEE LOG BOOK</b>
10	Regular performance evaluation of the ETP shall be undertaken every year to check its adequacy, through credible institutes like L.D.College of Engineering, NPC or such other institutes of similar repute, and its records shall be maintained.	<p><b>Complied.</b></p> <p>The unit has done the ETP efficiency study from Pacific School of Engineering, Surat. Certificate for the same is attached as <a href="#">Annexure-32</a></p>
11	The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.	<p><b>Complied.</b></p> <p>The unit has participated financially and technically for common environmental facilities/infrastructure as and when the same is taken up either by the Industrial Association or SEZ / GIDC or GPCB or any such authority created for this purpose by the Govt..</p>
12	<b>EC Condition as per EC 2013.</b> <p>Natural gas to the tune of 2000 Kg/Hr, 187.5 Kg/Hr and 5 Kg/Hr shall be used as a fuel in boiler-1 (20 TPH), Thermic Fluid Heater and flaring respectively.</p>	<p><b>Complied</b></p> <p>The unit has used Natural gas as a fuel in Thermic Fluid Heater and Flaring respectively. The data of the last six months are given in the following table.</p>

	<p>As per Amended EC No. SEIAA/GUJ/EC/5(f)/547/2019, dated 10-04-2019 and Condition No. 12</p> <p>Natural gas to the tune of 187.5 Kg/Hr and 5 Kg/Hr shall be used as a fuel in Thermic Fluid Heater and Flaring respectively.</p>	Natural Gas Consumption																							
		Month	Total Consumption (kg/Month)	Total Consumption Kg/Hr																					
		October 2024	62,392.94	86.7																					
		November 2024	64,057.05	89.0																					
		December 2024	84,385.55	117.2																					
		January 2025	55460.47	77.0																					
		February 2025	64479.16	89.6																					
		March 2025	66188.09	91.9																					
		In order to use clean fuel for all of our operations, for preparation of food in the canteen, Natural gas is being used.																							
		Natural gas parameters are within the prescribed limit																							
13	<p>EC Condition as per EC 2013.</p> <p>Diesel to the tune of 270 Lit/Hr shall be used as a fuel in each of the D.G.Set (1000 KVA x 2 no.).</p> <p>As per Amended EC No. SEIAA/GUJ/EC/5(f)/547/2019, dated 10-04-2019 and Condition No. 12</p>	<p>Complied.</p> <p>The unit has installed three DG sets(1000 KVA x 2 and 1500 KVA x 1) as per the CCA No. AWH-112729, dated 15/06/2021. Records of diesel consumption month-wise given as below:</p> <table><tr><td>Month</td><td>Total Diesel Consumption (Ltr/Month)</td><td>Diesel Consumption (Ltr/Hr)</td></tr><tr><td>October 2024</td><td>258</td><td>0.4</td></tr><tr><td>November 2024</td><td>268</td><td>0.4</td></tr><tr><td>December 2024</td><td>238.85</td><td>0.4</td></tr><tr><td>January 2025</td><td>277.10</td><td>0.3</td></tr><tr><td>February 2025</td><td>200.6</td><td>0.3</td></tr><tr><td>March 2025</td><td>2293.29</td><td>3.2</td></tr></table> <p>Diesel consumption under the prescribed limit.</p>			Month	Total Diesel Consumption (Ltr/Month)	Diesel Consumption (Ltr/Hr)	October 2024	258	0.4	November 2024	268	0.4	December 2024	238.85	0.4	January 2025	277.10	0.3	February 2025	200.6	0.3	March 2025	2293.29	3.2
Month	Total Diesel Consumption (Ltr/Month)	Diesel Consumption (Ltr/Hr)																							
October 2024	258	0.4																							
November 2024	268	0.4																							
December 2024	238.85	0.4																							
January 2025	277.10	0.3																							
February 2025	200.6	0.3																							
March 2025	2293.29	3.2																							
14	<p>EC Condition as per EC 2013.</p> <p>Coal to the tune of 3333.3 Kg/Hr, 200 Kg/Hr and 200 Kg/Hr. Shall be used as a fuel in Boiler-2 (20 TPH), CaCO3 Drier and Ethylation Furnace respectively.</p>	<p>Complied</p> <p>Total Coal consumption in boilers with Average of 3.06 MT/hr received during April 2024 to April 2024. Presently the unit is not doing the Chlorination process. Hence there is no HCL generation. The unit has converted partial EC to CCA.</p> <table><tr><td>Month</td><td>Coal Consumption in</td><td>Coal Consumption</td><td>Coal Consumption</td></tr></table>			Month	Coal Consumption in	Coal Consumption	Coal Consumption																	
Month	Coal Consumption in	Coal Consumption	Coal Consumption																						

	<p>As per Amended EC No. SEIAA/GUJ/EC/5(f)/547/2019, dated 10-04-2019 and Condition No. 14</p> <p>Coal to the tune of 3333.3 Kg/Hr, 12917 Kg/Hr, 200 Kg/Hr and 200 Kg/Hr shall be used as a fuel in 20 TPH steam Boiler - 1, 67 TPH steam Boiler - 2, CaCO3 Dryer Vent and Ethylation Furnace respectively.</p>		67 TPH & 14 TPH boiler (MT/Month)	for boiler (MT/day)	for boiler (MT/Hr)
		October 2024	4,706.0	151.8	6.3
		November 2024	4,903.0	163.4	6.8
		December 2024	5,601.0	180.7	7.5
		January 2025	5,602.0	180.7	7.5
		February 2025	4963	171.1	7.1
		March 2025	5,287	170.5	7.1
<p>All the parameters are within the prescribed limit.</p> <p>We have regularized the stack while renewal of CCA AWH-112729 dated 15.06.2021.</p>					
15	<p><b>EC Condition as per EC 2013.</b></p> <p>ESP shall be provided for control of flue gas emission from the coal fired Boiler-2.</p> <p><b>Amended EC condition as per EC 2019.</b></p> <p>Adequate Electrostatic Precipitator - ESP as APCM shall be provided for control of flue gas emission from the coal fired Boilers (20 TPH and 67 TPH Boiler\</p>	<p>Complied.</p> <p>APCM systems have been installed for Boiler 67 TPH, 20 TPH such as ESP. Fly Ash being stored in a silo storage area.</p> <div></div> <p><b><u>3 stage ESP and 76 m stack attached to boiler</u></b></p>			



		 <p><u>Silo installed for fly ash storage and dusting free truck loading</u></p>  <p><u>Automated Lime feeding system for controlling SOx commission.</u></p>
16	Wet scrubbers shall be provided for control of flue gas emission from $\text{CaCO}_3$ Drier and Ethylation Furnace.	<p><b>Complied.</b></p> <p>Alkali scrubber has been provided for control of HCl gas emission from the Ethylation and Propylation process. The furnace has been converted into the above said scrubber through CCA No. AWH-112729 and dated 15/06/2021.</p> <p>HCL emissions in the Ethylation and Propylation process are monitored by an approved NABL / GPCB/MOEF and CC authorized party (Unistar Environment and Research Labs Pvt. Ltd.). The results are given below table. Copy attached in the following table. See <a href="#">Annexure-10</a>.</p>


		<p style="text-align: center;"><b><u>Unistar NABL Certification No.: TC-7753</u></b></p> <table border="1"> <thead> <tr> <th>Month</th><th>HCl (mg/Nm<sup>3</sup>)</th><th>GPCB Limit</th></tr> </thead> <tbody> <tr> <td>October 2024</td><td>BDL</td><td rowspan="6">20 mg/Nm<sup>3</sup></td></tr> <tr> <td>November 2024</td><td>BDL</td></tr> <tr> <td>December 2024</td><td>BDL</td></tr> <tr> <td>January 2025</td><td>BDL</td></tr> <tr> <td>February 2025</td><td>BDL</td></tr> <tr> <td>March 2025</td><td>BDL</td></tr> </tbody> </table> <p>Note: BDL-Below Detection Limit</p> <p>The results are below the prescribed limit.</p> <p>Unit has not obtained CC and A for CaCO<sub>3</sub> dryer as it is not a part of existing production for Ethylation and Propylation products.</p>	Month	HCl (mg/Nm <sup>3</sup> )	GPCB Limit	October 2024	BDL	20 mg/Nm <sup>3</sup>	November 2024	BDL	December 2024	BDL	January 2025	BDL	February 2025	BDL	March 2025	BDL				
Month	HCl (mg/Nm <sup>3</sup> )	GPCB Limit																				
October 2024	BDL	20 mg/Nm <sup>3</sup>																				
November 2024	BDL																					
December 2024	BDL																					
January 2025	BDL																					
February 2025	BDL																					
March 2025	BDL																					
17	The process emission of HCL from CaCO <sub>3</sub> reactor and HCL and Cl <sub>2</sub> from Chlorination shall be controlled with the help of falling of Film Absorber followed by Alkali Scrubber.	<p>Complied.</p> <p>The unit has partially converted CCA No. AWH-112729 and dated 15/06/2021 only for ethylation and propylation products.</p> <p>The Emission details are mentioned in point no. 16.</p>																				
18	The air pollution control equipment / systems shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at vent / stack outlets.	<p>Complied.</p> <p>Flue gas emissions are monitored by an approved NABL / GPCB/MOEF and CC authorized party (Unistar Environment and Research Labs Pvt. Ltd.). The results are attached in the following table. Results for the same are attached as <a href="#">Annexure-23</a>.</p>																				
19	Stacks of adequate height as per prevailing norms shall be provided for the flue gas and process emissions.	<p>Complied.</p> <p>Stacks of adequate height as per prevailing norms are provided for the flue gas and process emissions. Stack heights are given as below:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Stack attached to</th><th>Stack height (m)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Boiler-I (Capacity- 14 TPH)</td><td rowspan="2">42 (Common)</td></tr> <tr> <td>2</td><td>Thermic Fluid Heater (Capacity- 20 Lac Kcal/Hr)</td></tr> <tr> <td>3</td><td>D G Set(Capacity- 1000 KVA)- 2 Nos.</td><td>30</td></tr> <tr> <td>4</td><td>D G Set (Capacity- 1500 KVA)</td><td>30</td></tr> <tr> <td>5</td><td>Boiler II (Capacity- 67 TPH)</td><td>80</td></tr> <tr> <td>6</td><td>HCL Scrubber</td><td>11</td></tr> </tbody> </table>	Sr. No.	Stack attached to	Stack height (m)	1	Boiler-I (Capacity- 14 TPH)	42 (Common)	2	Thermic Fluid Heater (Capacity- 20 Lac Kcal/Hr)	3	D G Set(Capacity- 1000 KVA)- 2 Nos.	30	4	D G Set (Capacity- 1500 KVA)	30	5	Boiler II (Capacity- 67 TPH)	80	6	HCL Scrubber	11
Sr. No.	Stack attached to	Stack height (m)																				
1	Boiler-I (Capacity- 14 TPH)	42 (Common)																				
2	Thermic Fluid Heater (Capacity- 20 Lac Kcal/Hr)																					
3	D G Set(Capacity- 1000 KVA)- 2 Nos.	30																				
4	D G Set (Capacity- 1500 KVA)	30																				
5	Boiler II (Capacity- 67 TPH)	80																				
6	HCL Scrubber	11																				

			7	Reactor (NG consumption 5 kg/hr for flaring)	18	
20	The unit shall undertake measures of solvent recovery and adequate reflux condensers and chilled brine secondary condensers shall be provided for controlling escape of low boiling solvents. Solvent recovery shall not be less than 95 percent in any case.	Complied. The unit is not using any type of solvent for the process.				
21	Measures shall be taken to reduce the process vapors emissions as far as possible. Use of toxic solvents shall be minimum. All venting equipment shall have vapour recovery system.	Complied. All process vents are in a closed loop. The venting of process vapor is done through a flare system. We continuously monitor VOC by portable instruments in the plant area. We are also monitored by NABL/MOEF and CC / GPCB authorized parties (Unistar Environment and Research Labs Pvt. Ltd.) on a monthly basis for the same.				
22	The fugitive emissions in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Detectors of Industrial Safety and Health).	Complied.  The fugitive emissions in the work zone environment are monitored by in house facilities as well as done by a third party consultant who has a MoEF and CC/GPCB/NABL approved laboratory. Results of fugitive emissions (Form-37) are attached as <a href="#">Annexure-12</a>  <b><u>Unistar NABL Certification No.: TC-7753</u></b>				
		Month	Workplace Report / Form 37 Total Dust in mg/m³		Limit (As given in Schedule-II as per Factories Act 1948) (mg/m³)	
		October 2024	1.32		10	
		November 2024	1.29			
		December 2024	1.5			
		January 2025	2.2			
		February 2025	1.88			
		March 2025	1.98			
		All the results are within the prescribed limit				

23	<p>Regular monitoring of ground level contamination of SO2, NOx, HCL, Cl2, PM10 and PM2.5 shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not be less the standards stipulated by GPCB. If any stage this levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.</p>	<p>Compiled.</p> <p>The unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) at upwind and downwind location by a MoEF approved laboratory (Unistar Environment and Research Labs Pvt. Ltd.). The results of the analysis are provided in the table. Copy of the analysis report has been attached as <a href="#">Annexure-2</a></p> <p style="text-align: center;"><b><u>Unistar NABL Certification No.: TC-7753</u></b></p> <table><tr><th rowspan="2">Location</th><th rowspan="2">Paramete rs(microgr am/m3)</th><th colspan="6">Month</th></tr><tr><th>Oct 24</th><th>Nov 24</th><th>Dec 24</th><th>jan 25</th><th>feb 25</th><th>Mar 25</th></tr><tr><td rowspan="4">Main Gate</td><td>PM10</td><td>72.00</td><td>74.88</td><td>65.90</td><td>71.30</td><td>78.50</td><td>79.88</td></tr><tr><td>PM2.5</td><td>21.00</td><td>24.00</td><td>20.60</td><td>22.80</td><td>24.13</td><td>23.63</td></tr><tr><td>SO2</td><td>13.20</td><td>17.00</td><td>13.76</td><td>14.73</td><td>19.91</td><td>19.85</td></tr><tr><td>NO2</td><td>16.20</td><td>21.85</td><td>18.73</td><td>19.36</td><td>24.98</td><td>25.01</td></tr><tr><td rowspan="4">ETP</td><td>PM10</td><td>75.00</td><td>70.75</td><td>68.20</td><td>72.08</td><td>75.00</td><td>74.25</td></tr><tr><td>PM2.5</td><td>24.00</td><td>23.00</td><td>21.60</td><td>28.54</td><td>23.13</td><td>23.38</td></tr><tr><td>SO2</td><td>12.40</td><td>19.13</td><td>14.50</td><td>16.13</td><td>20.25</td><td>19.96</td></tr><tr><td>NO2</td><td>17.20</td><td>23.29</td><td>18.91</td><td>20.15</td><td>25.16</td><td>25.05</td></tr><tr><td rowspan="4">Plant Office</td><td>PM10</td><td>70.00</td><td>70.75</td><td>68.20</td><td>69.05</td><td>67.63</td><td>71.00</td></tr><tr><td>PM2.5</td><td>21.00</td><td>23.00</td><td>21.60</td><td>21.56</td><td>23.25</td><td>24.38</td></tr><tr><td>SO2</td><td>15.30</td><td>19.13</td><td>14.50</td><td>15.63</td><td>14.90</td><td>15.85</td></tr><tr><td>NO2</td><td>20.80</td><td>23.29</td><td>18.91</td><td>20.65</td><td>19.30</td><td>18.70</td></tr></table> <p style="text-align: center;">Note: N.D.- Not Detected, BDL - Below Detection Limit</p> <p><b>All the results are within the prescribed limit</b></p>	Location	Paramete rs(microgr am/m3)	Month						Oct 24	Nov 24	Dec 24	jan 25	feb 25	Mar 25	Main Gate	PM10	72.00	74.88	65.90	71.30	78.50	79.88	PM2.5	21.00	24.00	20.60	22.80	24.13	23.63	SO2	13.20	17.00	13.76	14.73	19.91	19.85	NO2	16.20	21.85	18.73	19.36	24.98	25.01	ETP	PM10	75.00	70.75	68.20	72.08	75.00	74.25	PM2.5	24.00	23.00	21.60	28.54	23.13	23.38	SO2	12.40	19.13	14.50	16.13	20.25	19.96	NO2	17.20	23.29	18.91	20.15	25.16	25.05	Plant Office	PM10	70.00	70.75	68.20	69.05	67.63	71.00	PM2.5	21.00	23.00	21.60	21.56	23.25	24.38	SO2	15.30	19.13	14.50	15.63	14.90	15.85	NO2	20.80	23.29	18.91	20.65	19.30	18.70
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24	<p><b>EC condition as per EC 2013.</b></p> <p>The Unit must strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008. Authorization from the GPCB must be obtained from collection / treatment / storage / disposal of hazardous wastes.</p>	<p>Compiled.</p> <p>The unit has obtained permission from the GPCB CCA No. AH-131146, Issued on 02/03/2024 valid till 19/05/2028 for collection, storage and disposal of hazardous waste. The solid waste is disposed to BEIL, Ankleshwar, process waste is disposed to RSPL for co processing and Aluminium Hydroxide (Process Waste) is being sent to Pradip Overseas (Rule-9) for utilization as raw material in their process through manifest system and GPS.</p> <table><tr><th>Month</th><th>ETP Sludge + MEE Salt (35.3) (MT)</th><th>Process Residue (26.1) (MT) Pre-proces</th><th>Spent Waste oil (5.1) (MT)</th><th>Aluminum Hydroxide/ Process Waste(26.1 ) (Rule-9,</th><th>Discarded Bags/Insul ation Waste(33. 1) (MT)</th><th>Insulatio n Waste/N RP</th></tr></table>	Month	ETP Sludge + MEE Salt (35.3) (MT)	Process Residue (26.1) (MT) Pre-proces	Spent Waste oil (5.1) (MT)	Aluminum Hydroxide/ Process Waste(26.1 ) (Rule-9,	Discarded Bags/Insul ation Waste(33. 1) (MT)	Insulatio n Waste/N RP																																																																																														
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<b>Amended EC condition as per EC 2019.</b> All possible efforts shall be made for Co-Processing of the hazardous waste prior to disposal into TSDF/CHWIF.		<b>Landfilling</b>	<b>sing</b>		<b>Pre-proces sing &amp; incineratio n) (MT)</b>		
	<b>Limit (MT/Annu m)</b>	<b>2555</b>	<b>660</b>	<b>35</b>	<b>81739</b>	<b>15</b>	<b>40</b>
					Rule-9		
	<b>October 2024</b>	77.53	17.02	0	438.62	0.59	6.21
	<b>November 2024</b>	123.48	10.98	0	256.83	0.77	0
	<b>December 2024</b>	34.81	13.34	2.05	1196.9	0	3.51
	<b>January 2025</b>	33.37	21.1	0	536.85	8.18	2.36
	<b>February 2025</b>	57.69	22.07	0	951.15	0.99	2.54
	<b>March 2 2025</b>	23.88	25.45	0	913.75	0	0.89
	<b>Total</b>	350.76	109.96	2.05	4294.1	10.53	15.51
	<b>Month</b>	<b>Spent Catalyst (26.5) (MT)Recycl ers</b>	<b>Spent carbon(26. 1)(MT)</b>	<b>Off-Specific ation(26.1)( MT)</b>	<b>spent Resin(35.2) (MT)</b>	<b>HF</b>	<b>H3BO3</b>
	<b>Limit (MT/Annu m)</b>	<b>0.0</b>	<b>60</b>	<b>32</b>	<b>20</b>	<b>0</b>	<b>0</b>
	<b>October 2024</b>	0	0	0	0	0	0
	<b>November 2024</b>	0	0	0	0	0	0
	<b>December 2024</b>	0	0	0	0	0	0
	<b>January 2025</b>	0	0	0	0	0	0
	<b>February 2025</b>	0	0	0	0	0	0


		<table><tr><td>March 2025</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Total</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr></table> <p>All the disposed quantity are within the prescribed limit</p> <p>Unit is strictly complying with all the regulations mentioned in Hazardous waste rule, 2016 (Manifest-Form 10/Labeling-Form 8/ TREM Card- Form 9/Maintain Records- Form 3/ Annual return submission- Form 4 etc. same as attached as <a href="#">Annexure-13.</a></p>	March 2025	0	0	0	0	0	0	Total	0	0	0	0	0	0
March 2025	0	0	0	0	0	0										
Total	0	0	0	0	0	0										
25	The hazardous waste shall be stored in a separate designated hazardous waste facility with impervious bottom and leachate collection facility, before its disposal.	<p><b>Complied.</b></p> <p>Dedicated hazardous waste storage is provided with a shed, impervious flooring and Leachate collection system.</p> <p>Photograph of same is attached below for your kind reference:</p> 														
26	ETP sludge shall be sent to the common TSDF. The unit shall obtain necessary membership of the nearest TSDF operator before commencing production activities.	<p><b>Complied.</b></p> <p>Monthly sludge generation and disposal. Unit has valid membership of the TSDF(BEIL), SEPPL and RSPL. Copies of membership certificates are attached as <a href="#">Annexure-19.</a></p>														
27	Residues from hydrogenation and Chlorination shall be sent to the Common Hazardous Waste Incineration (CHWI) facility. The unit shall obtain membership of the nearest CHWI operator before commencing production	<p><b>Complied.</b></p> <p>Presently the unit is not doing the Hydrogenation and Chlorination process, as the unit is in the first phase of production 'Ethylation and Propylation group'.</p>														

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

	activities.	
28	Spent catalyst shall be sold only to the registered recyclers / regenerators.	<p>Complied.</p> <p>Unit did not generate any Spent Catalyst During October 2024 to March 2025.</p>
29	Used oil shall be sold only to the registered recyclers.	<p>Complied.</p> <p>Used oil is sold to authorized registered recyclers named M/s. S.B.Lubricants, Bharuch, the party who is registered/ authorized by CPCB and GPCB. M/s. S.B.Lubricants have a valid CCA No. AWH-115718 vide dated 03.11.2021 and valid upto 29.06.2026.</p>
30	HCL (30%) shall be converted to Calcium Chloride in onsite $\text{CaCl}_2$ plant and HCL (30%) shall be sold to sister concerns M/s. Aarti Salt and Chemical located at Plot No. A/1-6 and 9, Phase-1, GIDC, Vapi, only during unforeseen circumstances.	<p>Complied.</p> <p>Presently the unit is not doing the Chlorination process and has not installed <math>\text{CaCl}_2</math> plant. Hence there is no HCL generation.</p> <p>As per the latest EC received, the unit has not taken any <math>\text{CaCl}_2</math> plant under EC SEIAA/GUJ/EC/5(f)/2630/2022.</p>
31	Other co-products / spent acids shall be sold only to authorized actual end consumers and records of sale shall be maintained and furnished to the GPCB from time to time.	<p>Complied.</p> <p>Unit has no generation of any spent Acid.</p> <p>Unit is generating Aluminum Hydroxide as Hazardous waste for which valid authorization CCA number AWH-112729, dated 15/06/2021 is obtained. Aluminum hydroxide is being sent to Mona Print Pvt Ltd. (Rule-9) for utilization as raw material in their process through manifest system and AIS-140 based GPS tracking. Also we have intimated GPCB for the same. Sample copy attached as <a href="#">Annexure-14</a>. &amp; <a href="#">Annexure-15</a> &amp; respectively. MoU also attached as <a href="#">Annexure-16</a></p>
32	The discarded containers / drums / liners / bags shall be either reused or sold only to registered recyclers after its decontamination.	<p>Complied.</p> <p>The discarded containers / drums / liners / bags are sent to registered recyclers after its decontamination.</p>
33	The project management shall strictly comply with the provisions made in the factories Act, 1948 as well as Manufacture, Storage and Impact of Hazardous Chemical Rules, 1989 as amended in 2000 for handling of hazardous chemicals.	<p>Complied.</p> <p>The project management is strictly complying with the provisions made in the factories Act, 1948 as well as Manufacture, Storage and Impact of Hazardous Chemical Rules, 1989 as amended in 2000 for handling of hazardous chemicals.</p>
34	Necessary approvals from PESO and concerned Govt. Authorities shall be obtained before commissioning of the project.	<p>Complied.</p> <p>The unit has obtained a certificate issued from PESO, which is attached as <a href="#">Annexure-25</a>, regarding the Nitrogen License valid until September 30, 2027.</p>

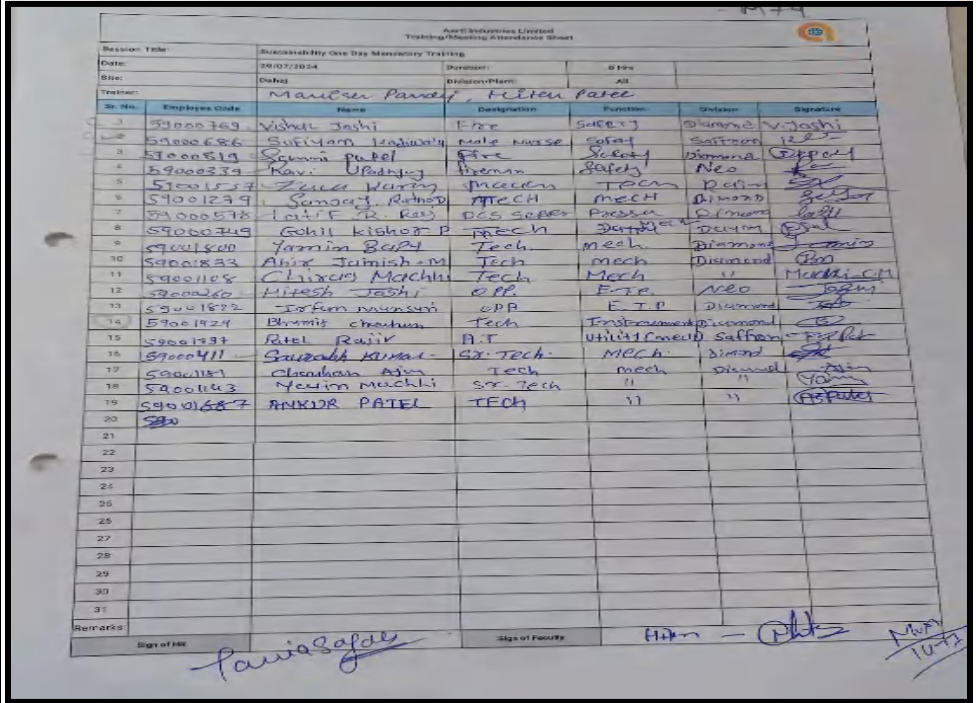
35	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of hazardous chemicals; especially solvents and chlorine.	<p>Complied.</p> <p>All the hazardous chemicals are stored and handled through a closed loop system. At present the unit is not using chlorine as the unit has EC converted partially to CCA.</p>
36	Proper ventilation shall be provided in the work area.	<p>Complied.</p> <p>All processing work areas are fully ventilated. The production block is designed in a way that natural draft ventilation is there constantly as the process plant has 4 side open areas for smooth flow of fresh air.</p>
37	Storage and use of hazardous chemicals shall be minimized to the extent possible.	<p>Complied.</p> <p>We are maintaining a minimum inventory of hazardous chemicals.</p>
38	Hazardous materials storage shall be at an isolated designated location, bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	<p>Complied.</p> <p>Separate Hazardous materials storage areas with dyke walls are provided. Photographs for your reference,</p>  <p><b><u>Hazardous chemical stored at isolated places along with dykewall</u></b></p>
39	Storage of hazardous chemicals shall be in multiple small capacity tanks / containers instead of one single large capacity tank to reduce the risk.	<p>Complied.</p> <p>Multiple small tanks have been provided for storage of hazardous chemicals.</p>

40	All the storage tanks shall be fitted with appropriate controls to avoid any leakage. Close handling system for chemicals shall be provided.	<p>Complied.</p> <p>Adequate measures have been taken to avoid any leakages, all the chemicals are transferred to the closed handling system. Safety valves, Breathing valves and adequate control systems like the DCS system have been provided on storage of hazardous chemicals. Provided level switch Monitoring at DCS system, Level transmission, Tank dyke area with pit for the collection of spillage and Leakages.</p>
41	Personal Protective Equipment shall be provided to workers and its usage shall be ensured and supervised.	<p>Complied.</p> <p>Sufficient Personal Protective Equipment are provided to all the workers like Safety goggles, safety shoes, helmet, dust mask, gas mask, hand gloves, etc. The unit is doing Regular training and supervision to ensure the proper usage of PPEs. A photograph for reference is attached below:</p> 

42	First Aid Box and required antidotes for the chemical used in the unit shall be made readily available in adequate quantity at all times.	<p>Complied.</p> <p>First Aid Box with required antidotes for the chemical used in the unit are made readily available in adequate quantity at all times. The Antidotes whose name is methylene blue for prevention from Cyanosis and Anti Snake Venom Serum for prevention from snake venom.</p> <div></div> <p><b>FIRST AID BOX</b></p>																																								
43	Necessary tie up with the nearby doctor qualified for occupational health shall be made to ensure that the medical treatment is given within the shortest possible time in case of any adverse conditions.	<p>Complied.</p> <p>In case of emergencies, the unit has arrangements with nearby healthcare units and doctors for immediate medical attention, and also has an on-site Occupational Health Center (OHC) equipped with full medical facilities, staffed by factory medical officers, and further maintains a tie-up with a hospital as documented below table.</p> <table><tr><th colspan="5">External Hospitals Tie UP Contact No.</th></tr><tr><th>Sr no.</th><th>Name Of Hospital</th><th>Address of Hospital</th><th>External No.</th><th>Contact no.</th></tr><tr><td>1</td><td>Apex hospital</td><td>Adarsh Market, Panchbatti, Bharuch</td><td>02642-265800</td><td>Dr Asma (9158059220)</td></tr><tr><td>2</td><td>7X Multispeciality Hospital</td><td>4th Floor, 7X Corridor, Soneri Mahal Rd, opp. Motilal Vin Baug, nr. Panchbatti, Bharuch</td><td>9824143278</td><td>Hardish Patel(7990857930) Nikunj</td></tr><tr><td>3</td><td>Baroda heart multi speciality hospital</td><td>Capital business centre Panchbatti, Bharuch</td><td>02642-260551 / 552</td><td>-</td></tr><tr><td>4</td><td>Healing touch hospital</td><td>Doctor house,behind plaza hotel, Bharuch</td><td>02642-262500</td><td>-</td></tr><tr><td>5</td><td>Celestial Wellness Solutions Pvt.Ltd</td><td>3rd Floor Nexus Business Hub Above Dhiraj Sones,Maktampur,Bharuch</td><td>9377410261</td><td>Dr.Tanvi Dalal</td></tr><tr><td>6</td><td>Palmland Hospitals</td><td>Falshruti Nagar,</td><td>9925802555</td><td>Dr.Wasim Raj</td></tr></table>	External Hospitals Tie UP Contact No.					Sr no.	Name Of Hospital	Address of Hospital	External No.	Contact no.	1	Apex hospital	Adarsh Market, Panchbatti, Bharuch	02642-265800	Dr Asma (9158059220)	2	7X Multispeciality Hospital	4th Floor, 7X Corridor, Soneri Mahal Rd, opp. Motilal Vin Baug, nr. Panchbatti, Bharuch	9824143278	Hardish Patel(7990857930) Nikunj	3	Baroda heart multi speciality hospital	Capital business centre Panchbatti, Bharuch	02642-260551 / 552	-	4	Healing touch hospital	Doctor house,behind plaza hotel, Bharuch	02642-262500	-	5	Celestial Wellness Solutions Pvt.Ltd	3rd Floor Nexus Business Hub Above Dhiraj Sones,Maktampur,Bharuch	9377410261	Dr.Tanvi Dalal	6	Palmland Hospitals	Falshruti Nagar,	9925802555	Dr.Wasim Raj
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**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

				Station Road, Bharuch	(9925802555) Suhana Kureshi(9016756439)
44	Training shall be given to all workers on safety and health aspects of handling chemicals.	Complied.  Training is given to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees are done on a regular basis. Training to all employees on handling chemicals is imparted regularly. Training sheet is attached below.			

45	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Acts and Rules.	<p>Complied.</p> <p>Occupational health surveillance of the workers is carried out on a half yearly basis and records are maintained as per the factory act.</p> <p>Following check up has been carried out in periodical medical checkup.</p> <ul style="list-style-type: none"> <li>- General checkup (height, weight, pulse, BP etc)</li> <li>- Blood test ( RBC, WBS, hemoglobin, platelets, blood group, differential count, G6PD etc)</li> <li>- Urine test (physical, chemical and microbial examination etc)</li> <li>- Vision test</li> <li>- Pulmonary function test</li> <li>- Audiometry</li> <li>- ECG</li> <li>- met Hb for specific workers</li> </ul> <p>Details of health surveillance of the employees and contract workers are given below and attached as <a href="#">Annexure-34</a>.</p>
46	The project management shall be prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health.	<p>Complied.</p> <p>Disaster Management Plan (DMP) for the project is Prepared as per the guidelines from Directorate of Industrial Safety and Health (DISH) and updated copy submitted on 15.03.2022. Received copy from DISH along with index is attached as <a href="#">Annexure-35</a>.</p>
47	All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act and Rules.	<p>Complied.</p> <p>Hazardous chemicals transported as per the Motor Vehicle Act and Rules. Copy of Checklist attached as <a href="#">Annexure-36</a></p>
48	All transporting routes within the factory premise shall have paved roads to minimize splashes and spillages.	<p>Complied.</p> <p>All the roads are paved with RCC. Photograph for same is attached below:</p>






																																																																																																											
49	<p>The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. On all source of noise generation. The ambient noise level shall confirm to the Environment (Protection) Act and Rules. Workplace noise level for workers shall be as per the Factories Act and Rules.</p>	<p>Complied.</p> <p>The noise levels in the plant conforms to the standards prescribed in the EP Act, 1986. Noise monitoring is carried out by a MoEF approved laboratory (Unistar Environment and Research Labs Pvt. Ltd.) Details of the noise levels at various locations are mentioned in the table below.</p> <p>Noise report is attached as <a href="#">Annexure-21</a></p> <table><tr><th rowspan="2">Location</th><th rowspan="2">GPCB LIMITS</th><th colspan="2">October'24</th><th colspan="2">November'24</th><th colspan="2">December'24</th><th colspan="2">January'25</th><th colspan="2">February'25</th><th colspan="2">March'25</th></tr><tr><th>Day Time</th><th>Night Time</th><th>Day Time</th><th>Night Time</th><th>Day Time</th><th>Night Time</th><th>Day Time</th><th>Night Time</th><th>Day Time</th><th>Night Time</th><th>Day Time</th><th>Night Time</th></tr><tr><td>Near Main Gate</td><td rowspan="6">Day @ 75 dB (A) Night @ 70 dB (A)</td><td>63.4</td><td>51.3</td><td>62.4</td><td>52.3</td><td>61.5</td><td>56.2</td><td>62.5</td><td>57.5</td><td>63.1</td><td>58.2</td><td>65.6</td><td>59.7</td></tr><tr><td>Near Material Gate</td><td>62.1</td><td>52.4</td><td>61.8</td><td>53.7</td><td>62.3</td><td>55.8</td><td>61.4</td><td>56.2</td><td>62.5</td><td>57.2</td><td>64.3</td><td>55.3</td></tr><tr><td>Near Boiler</td><td>71.6</td><td>62.7</td><td>70.6</td><td>63.5</td><td>68.5</td><td>62.8</td><td>70.5</td><td>65.8</td><td>69.4</td><td>64.2</td><td>70.4</td><td>67.5</td></tr><tr><td>Near ETP</td><td>70.3</td><td>57.3</td><td>71.2</td><td>66.8</td><td>66.5</td><td>60.2</td><td>68.2</td><td>63.5</td><td>67.1</td><td>62.3</td><td>69.6</td><td>64.6</td></tr><tr><td>Near MEA Plant</td><td>69.4</td><td>60.8</td><td>68.6</td><td>61.2</td><td>67.3</td><td>62.5</td><td>66.4</td><td>61.8</td><td>65.3</td><td>60.5</td><td>66.7</td><td>63.8</td></tr><tr><td>Near MEA-</td><td>63.2</td><td>53.3</td><td>62.5</td><td>54.6</td><td>66.4</td><td>57.2</td><td>65.1</td><td>60.3</td><td>64.2</td><td>59.2</td><td>64.8</td><td>56.2</td></tr></table>	Location	GPCB LIMITS	October'24		November'24		December'24		January'25		February'25		March'25		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Near Main Gate	Day @ 75 dB (A) Night @ 70 dB (A)	63.4	51.3	62.4	52.3	61.5	56.2	62.5	57.5	63.1	58.2	65.6	59.7	Near Material Gate	62.1	52.4	61.8	53.7	62.3	55.8	61.4	56.2	62.5	57.2	64.3	55.3	Near Boiler	71.6	62.7	70.6	63.5	68.5	62.8	70.5	65.8	69.4	64.2	70.4	67.5	Near ETP	70.3	57.3	71.2	66.8	66.5	60.2	68.2	63.5	67.1	62.3	69.6	64.6	Near MEA Plant	69.4	60.8	68.6	61.2	67.3	62.5	66.4	61.8	65.3	60.5	66.7	63.8	Near MEA-	63.2	53.3	62.5	54.6	66.4	57.2	65.1	60.3	64.2	59.2	64.8	56.2
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		<b>All the parameters are within the prescribed limit.</b>
50	<p>The unit shall undertake the Cleaner Production Assessment study through the reputed institute / organization and shall form a CP team in the company. The recommendation thereof along with the compliance shall be furnished to the GPCB.</p>	<p>Complied.</p> <p>Unit is converted to closed pipe lines for caustic use in plants instead of manually handled. For cleaner production Ortho Toluidine is collected via stripper to direct storage tank instead of manual collection. Unit has provided zero liquid discharge (ZLD) instead of discharge to CETP for cleaner production.</p> <p>The Study has been conducted on a Cleaner Production by GPCB accredited schedule - I auditor. Certificate for the same is attached as <a href="#">Annexure-3</a>.</p>
51	<p>The company shall undertake following waste minimization measures:</p> <p>A. Metering and control of quantities of active ingredients to minimize waste.</p> <p>B. Reuse of by-products from the process as raw materials or as raw materials substitutes in Other process.</p> <p>C. Use of automated and close filling to minimize spillages.</p> <p>D. Use of close feed system into batch reactors.</p> <p>E. Venting equipment through a vapour recovery system.</p> <p>F. Use of high pressure hoses for equipment cleaning to reduce wastewater generation.</p> <p>G. Sweeping / mopping of</p>	<p>A. Complied. Metering has been provided with active ingredients to minimize waste.</p> <p>B. Complied. The by-product generated by the unit <math>\text{Al}(\text{OH})_3</math> is sent to the authorized party of Rule 9 (Pradip Overseas) where it is utilized in their process as raw material.</p> <p>C. Complied. A closed system is used for filling of materials to minimize spillage. DCS systems are provided for the process.</p> <p>D. Complied. "Close feed" system is used in batch reactors and continuous reactors.</p> <p>E. Complied. Venting equipment are connected to a recovery system like scrubber and condensers.</p> <p>F. Complied. High pressure hoses are used for equipment cleaning to reduce wastewater generation.</p> <p>G. Complied. Sweeping / mopping the floor instead of floor washing to avoid effluent generation.</p> <p>H. Complied. Regular preventive maintenance of pumps, agitators, blowers and mechanical seals of all equipment to avoid leakage, spillage etc.</p>

	<p>floor instead of floor washing to avoid effluent generation.</p> <p>H. Regular preventive maintenance to avoid leakage, spillage etc.</p>	
52	<p>The unit shall have developed green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation at suitable open land on roadsides and other open areas within the GIDC / SEZ area or in near by locality / schools and submit an action plan of plantation for next three years to the GPCB.</p>	<p>Complied.</p> <p>Unit has developed a greenbelt within the premises as per the guidelines of CPCB. Photos for same are attached as below:</p> <div data-bbox="604 604 1549 1144" data-label="Image"> </div> <p style="text-align: center;"><b><u>Main Gate Area</u></b></p> <div data-bbox="604 1255 1549 1795" data-label="Image"> </div> <p style="text-align: center;"><b><u>Plant Boundary Area</u></b></p>




		 <p><u>Plant Boundary Area</u></p>
53	Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.	<p>Complied.</p> <p>Low-angle sprinkler systems are provided for the green belt development within the premises. Photo for same is attached as per following:</p> 

		 <p style="text-align: center;"><b><u>Sprinkler systems</u></b></p>
54	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely close down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	<p>Complied</p> <p>In the event of failure of any pollution control system, the unit has been provided with one push stop procedure as well as DCS systems for safe shutdown.</p>
55	A separate Environment Management Cell equipped with full fledged, laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions.	<p>Complied</p> <p>Unit has developed a Central laboratory equipped with equipment such as pH meter. TDS meter, COD meter. Glassware,gas cinematography system, oven, muffle furnace, etc. to carry out testing of routine parameters. Currently the parameters measured in-house are pH, COD, TDS, MLVSS and MLSS with a fully equipped laboratory.</p> <p>An experienced environmental engineer holding a BE (Environmental Engineering) degree has been deputed to monitor the environmental management systems along with a supporting zonal team of 4 Environmental Engineers and a Manager. A centralized environment cell stationed at the Corporate office headed by a Vice President under a team of Chief Manager, Senior Manager and 4 engineers who drives and monitors environment policy and performance.</p> <p>Structure of environment management cell is attached below :</p>

		<pre> graph TD     Director[Director] --&gt; CTSO[Chief Technical and Sustainability Officer]     CTSO --&gt; CESH[Corporate Environment &amp; Sustainability Head]     CESH --&gt; EMSM[Environment &amp; Sustainability Manager]     CESH --&gt; ETPOM[ETP Operation Manager]     EMSM --&gt; DESM[Division Environment &amp; Sustainability Manager]     DESM --&gt; DESE[Division Environment &amp; Sustainability Engineer]     ETPOM --&gt; ETPI[ETP Incharge]     ETPI --&gt; ETO[ETP Operator]         </pre> <p><b><u>Structure of environment management cell</u></b></p>
56	The funds earmarked for environmental protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported.	Complied.
57	During material transfer spillage shall be avoided and garland drain to be constructed to avoid mixing of accidental spillage with domestic wastewater and stormwater.	<p>Complied.</p> <p>For transfer of material to a tanker or tanker to a tank, a dyke wall has been made to prevent spillage and mixing with domestic and stormwater.</p> <p>For the transfer of effluent to ETP, dedicated pits with automated pumps are present to prevent overflow.</p> <p>Photo of dyke wall is attached as per following:</p>



		 <p style="text-align: center;"><b><u>Dyke Wall</u></b></p>															
58	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	<p>Complied.</p> <p>PCC flooring has been provided for work areas, chemical storage areas and chemical handling areas to minimize soil contamination.</p>															
59	Leakage from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.	<p>Complied.</p> <p>Preventive maintenance program is scheduled for minimal leakages from pipes and pumps. No incident of leakage from the pipes, pumps was found during said period.</p>															
60	<p><b>EC condition as per EC 2013.</b> The company shall carry out socio-economic developmental / community welfare activities in consultation with the District Development Officer / District collector.</p> <p><b>Amended EC condition as per EC 2019.</b> Unit shall comply provisions of MoEFCC's O.M. No. 22-65/2017-IA.III dated 01/05/2018 regarding Corporate Environment Responsibility (CER). Fund allocation of Corporate Environment Responsibility</p>	<p>Complied.</p> <p>Our unit has provided funds for socio-economic development as well as government development.</p> <table border="1"> <thead> <tr> <th>Name of Associated NGO</th><th>Nature of Work</th><th>Amount (Rs)</th></tr> </thead> <tbody> <tr> <td>Ramdev Electronics (C/o Jan seva &amp; Charitable Trust)</td><td>Donation of BPL Smart LED 55 inch TV to School</td><td>40,000</td></tr> <tr> <td>Happy Home</td><td>Distribution of 200 Water Bottle (per pieces price 180)for Lakhigam School</td><td>42,480</td></tr> <tr> <td>Gram Vikas Trust</td><td>Donation for Aarti Play group school at village Dahej &amp; Mira nagar Ankleshwar</td><td>741,256</td></tr> <tr> <td>Gram Vikas Trust</td><td>Donation for Vidya Sarthi</td><td>250,000</td></tr> </tbody> </table>	Name of Associated NGO	Nature of Work	Amount (Rs)	Ramdev Electronics (C/o Jan seva & Charitable Trust)	Donation of BPL Smart LED 55 inch TV to School	40,000	Happy Home	Distribution of 200 Water Bottle (per pieces price 180)for Lakhigam School	42,480	Gram Vikas Trust	Donation for Aarti Play group school at village Dahej & Mira nagar Ankleshwar	741,256	Gram Vikas Trust	Donation for Vidya Sarthi	250,000
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	(CER) shall be made as per the said OM dated 01/05/2018 for various activities therein. Item-wise details along with time bound action plan shall be prepared and submitted to the concerned authorities.		Project	
		<b>Total :</b>		<b>1,073,736</b>
61	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the EIA report.	<p>Complied.</p> <p>Unit takes necessary action to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the EIA report.</p>		
62	The project proponent shall also comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other component authority for the purpose of the environmental protection and management.	Noted by the unit and will be Compiled.		
63	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	Noted. We will take prior permission for any expansion or modification.		
64	The project authority shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	<p>Complied.</p> <p>Adequate funds have been allotted for implementing the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein.</p> <p>Total Invested Amount for these following implements;- <b>3.50 Cr.</b></p> <ul style="list-style-type: none"> <li>• MEE condensate to be diverted from SPRO input to Aeration feed tank/Equalization tank of ETP input with cooling arrangement and Stripper bottom to equalization tank cooling arrangement</li> <li>• Installation of Gate valves at material gate in storm water discharge trench and routing to ETP equalization tank and storm water holding pit to be installed with sensor and camera monitoring</li> <li>• Installation of sodium hypochlorite dosing system in outlet of STP.</li> <li>• To install MBBR plant for Sewage and canteen waste water treatment.</li> <li>• Digital green board requirement outside of main gate.</li> <li>• Rain Water Harvesting system.</li> <li>• Ambient air monitoring station height to be increased up to 3 meters as per guideline.</li> <li>• Taken MOC for installing ATFD for solidification of Al(OH)<sub>3</sub>.</li> <li>• Separate tank for MEE condensate utilization.</li> <li>• 4500 nos. tree plantation opposite to M/s. Tatva chintan plant as a CER activity.</li> <li>• Three layer separation tank at process plant for minimization of effluent.</li> </ul>		

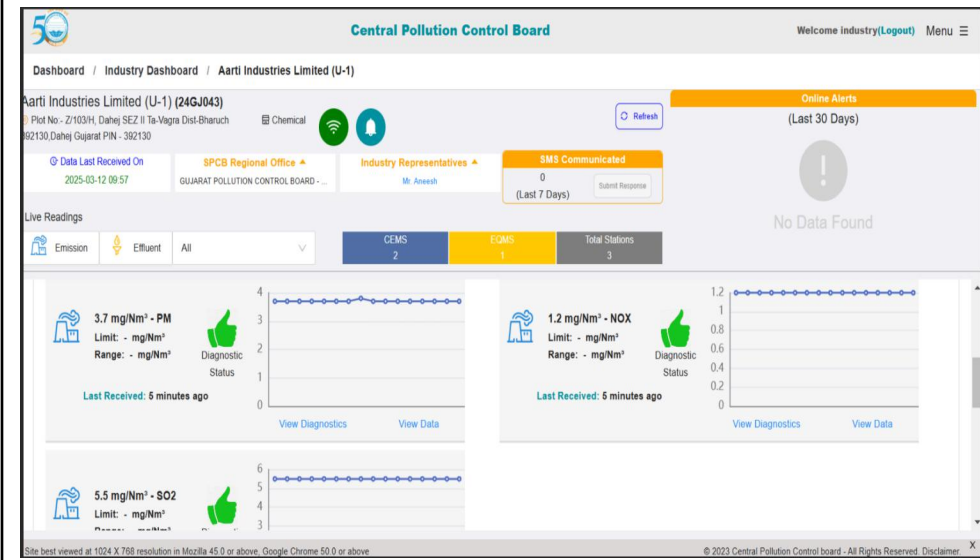



65	<p>The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with GPCB and may also seen at the website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspaper that are widely circulated in the region, one of which shall be in the Gujarati languages and the other in English. A copy of each of the same shall be Forwarded to the concerned Regional Office of the Ministry.</p>	<p>Complied.</p> <p>Due to oversight, the advertisement of EC was not published within the stipulated time period. We deeply regret not publishing the advertisement of EC within the stipulated time period.</p>
66	<p>It shall be mandatory for the project management to submit a half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned. On 1st June and 1st December of each calender year.</p>	<p>Complied.</p> <p>Last compliance report was submitted on 25.05.2024 for the period of April-2024 to September-2024 to SPCB &amp; MoEF&amp;CC.</p> <p>Copy of the same is attached herewith as <a href="#">Annexure-30</a>.</p>
67	<p><b>EC condition as per EC 2013.</b></p> <p>The project authorities shall also adhere to the stipulation made by the Gujarat Pollution Control Board.</p> <p><b>Amended EC condition as per EC 2019.</b></p> <p>The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.</p>	<p>Noted.</p> <p>Our unit is adhering to the stipulation made by the Gujarat Pollution Control Board.</p>

68	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Noted by the unit and it is complied.  The date of start of the project is 01/01/2014 by concerned authority LOA Copy Received from SEZ:- 14/03/2012. Attach Copy LOA Copy attached as <a href="#">Annexure-36</a> .
69	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted.
70	The company in a time bound manner shall implement these conditions. The SEIAA reserves the rights to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act,1974, Air (Prevention and Control of Pollution) Act,1981, the Environment (Protection) Act,1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules,2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.  We will implement all the rules and regulations prescribed from time to time.
71	This environmental clearance is valid for five years from the date of issue.	Noted,  The Environment Clearance No. SEIAA/GUJ/EC/5(f)/173/2013; Dated: 05/07/2013 is valid for five year from the date of issue. Unit has obtained EC extension No.SEIAA/GUJ/EC/5(f)/1639/2020 dated 31 Dec 2020. Copy is attached as <a href="#">Annexure-B</a> .
72	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act,2010.	Noted.

<b>Amended EC vide File No. SEIAA/GUJ/EC/5(f)/547/2019 dated 10/04/2019 condition as per EC 2019.</b>		
1	Unit shall remove existing natural gas based 20 TPH steam Boiler.	<p>Complied</p> <p>Unit has removed 20 TPH Boiler. The same is incorporated in CCA AWH-112729 dated 15/05/2021.</p>
2	There shall be no change in product profile as prescribed in the earlier Environmental Clearance dated 05/07/2013.	<p>Complied</p> <p>Unit has not been adopted for any change in product profile as prescribed in the earlier Environmental Clearance dated 05/07/2013.</p> <p>The same can be referred to in the CCA no. AWH-112729 dated 15/06/2021.</p>
3	Unit shall take all precautionary measures during transfer of steam to their sister concern units namely M/s. Aarti Industries Ltd. (Unit II) located at Plot No. Z/103/H and M/s. Aarti Industries Ltd. (Unit III) located at Z/111/B.	<p>Complied.</p> <p>Unit has taken all safety precautionary measures during transfer of steam to M/s. Aarti Industries Ltd. (Unit II) located at Plot No. Z/103/H and M/s. Aarti Industries Ltd. (Unit III) located at Z/111/B.</p> <p>The unit has ensured the pipe laying above a sturdy pipe rack, pipes are insulated with aluminum cladding, flangeless IBR welding joints are employed to ensure highest level of safety.</p>
4	Unit shall obtain necessary permissions, if any, from the concerned authority regarding laying the piping network for steam supply.	<p>Complied</p> <p>Unit has taken the necessary permission from the concerned authority. (SEZ/GIDC). <a href="#">Annexure-37</a>.</p>
5	Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.	<p>Complied</p> <p>Unit will analyze and maintain the records. Report of Sulphur and Ash Content of the fuel is attached as <a href="#">Annexure-38</a> and it is recorded regularly.</p>

6	<p>A long term study of radioactivity and heavy metals contents on coal/lignite to be used shall be carried out through a reputed institute and results thereof analyzed regularly and reported along with monitoring reports. Thereafter mechanisms for an in-built continuous monitoring for radioactivity and heavy metals in coal/lignite and fly ash n(including bottom ash) shall be put in place.</p>	<p>Noted for compliance.</p> <p>Unit has studied the heavy metal contents on coal/lignite. The attachment is as <a href="#">Annexure-38</a> for your reference.</p>
7	<p>A flue gas stack of 80 m height shall be provided with an online monitoring system to proposed steam boiler. Mercury emission from stacks shall also be monitored on a periodic basis. However, unit shall comply with the specific condition no. 13 above regarding the height of the Boiler stack.</p>	<p>Complied</p> <p>Height of the Stack is 80m and an online monitoring system is provided. Photos of Stack and CEMS are attached as per following:</p> <div style="display: flex; justify-content: space-around;">   </div>

		 <p>The screenshot shows the CPCB RTDMS online monitoring system interface. At the top, it says 'Central Pollution Control Board' and 'Welcome Industry(Logout)'. Below this, it identifies the user as 'Aarti Industries Limited (U-1)' with plot number Z/103/H, Dahej SEZ II, Ta-Vagra Dist-Bharuch. The dashboard includes sections for 'Data Last Received On' (2025-03-12 09:57), 'SPCB Regional Office' (GUJARAT POLLUTION CONTROL BOARD), 'Industry Representatives' (Mr. Anesh), and 'SMS Communicated' (0). It also shows 'Live Readings' for Emission, Effluent, and All, with a table for CEMS (2), EGMS (1), and Total Stations (3). The main area displays three pollutant cards: PM (3.7 mg/Nm³, Limit: - mg/Nm³, Range: - mg/Nm³, Diagnostic Status: Green), NOx (1.2 mg/Nm³, Limit: - mg/Nm³, Range: - mg/Nm³, Diagnostic Status: Green), and SO2 (5.5 mg/Nm³, Limit: - mg/Nm³, Range: - mg/Nm³, Diagnostic Status: Green). Each card has a 'Last Received: 5 minutes ago' timestamp and links for 'View Diagnostics' and 'View Data'. A 'No Data Found' alert is also visible on the right.</p>
		<p><u>CPCB RTDMS : online monitoring system</u></p>
8	<p>High efficiency Electrostatic Precipitator (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed boilers. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS is such a way that if emissions from ESP exceeds the specified standard prescribed in the Environment (Protection) Rules, 1986 as amended from time to time, utilization of boiler capacity shall reduce so that flue gas emission from the stack meets with the specified standards or reduce so that flue gas emission from the stack meets with the specified</p>	<p>Complied</p> <p>Three stages ESP is installed and It is connected to DCS. Flue gas monitoring is done on a monthly basis by a NABL approved third party. Reports for the same are attached as <a href="#">Annexure-23</a>.</p> <p>Also, we have concluded ESP efficiency study from GPCB accredited Schedule-I auditor, Pacific School of Engineering, Surat. Certificate for the same is attached as <a href="#">Annexure-3</a>.</p>

	standards or boiler shall shut down totally.	
9	Third party monitoring of the functioning of the ESP along with its efficiency shall be carried out once in a year through a reputed institute/organization.	<p>Complied</p> <p>Unit has initiated third party monitoring for the efficiency of ESP. The report for the same is attached as <a href="#">Annexure-4</a>.</p>
10	Limestone injection technology shall be adopted to control SO <sub>2</sub> and it shall be ensured that SO <sub>2</sub> levels in the ambient air do not exceed the prescribed standards.	<p>Complied</p> <p>Lime addition system provision has been provided in the boiler to control the SO<sub>2</sub> level. The results of stack monitoring attached as <a href="#">Annexure-23</a>. indicates that the system is working properly and SO<sub>2</sub> emission is within the limits.</p> <p>Photographs of the lime addition system are attached for your reference.</p>  <p style="text-align: center;"><b><u>Lime dosing system for SOX emissions control</u></b></p>
11	The company shall prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.	<p>Complied</p> <p>Regular preventive maintenance of mechanical and electrical parts of ESPs and have assigned responsibility of preventive maintenance to the senior officer of the company. Preventive maintenance Schedule has been prepared and the unit is following the same.</p>
12	Unit shall comply with all the applicable standard conditions prescribed in Office	<p>Noted for complied.</p> <p>The compliance report for same is Attached as <a href="#">Annexure-29</a></p>

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

	Memorandum (OM) published by MoEF and CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical Industries as mentioned at Sr. No. XX.	
13	Management of Fly ash (if any) shall be as per the Fly Ash Notification 2009 and its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	Complied.  We are sending 100 % Fly Ash to the end user for the purpose of brick manufacturing. <a href="#">Annexure-18</a>
Amended EC condition as EC 2020, EC No. SEIAA/GUJ/EC/5(f)/1639/2020 dated 31/12/2020.		

<b>1</b>	<p>Change in Condition No. 12, 13, 14,15, and 16 of the environmental clearance order no. SEIAA/GUJ/EC/5(f)/171/2013 have been amended and shall be read as under and extension of validity of EC granted to M/s Aarti Industries Ltd for further three years i.e. 05/07/2023 with remaining condition uncharged in EC granted by SEIAA, Gujarat vide letter No. SEIAA/GUJ/EC/5(f)/171/2013 dated :5 July 2013.</p>	<p>Noted and Complied</p>
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i.

**Condition No. 12 shall now be read as under:**

12. Unit shall not exceed fuel consumption for TFH, steam boiler, furnace and stand by DG set as mentioned below:

Sr. No.	Stack attached to	Type of fuel	Quantity	Stack height in meters	APCM	Parameters
1	Boiler-I Capacity-20 TPH	Coal	3333.3 Kg/Hr.	42 (Common chimney with Boiler)	ESP	SPM SO <sub>2</sub> NO <sub>x</sub>
2	Thermic Fluid Heater Capacity-20 Lac. Kcal/Hr.	Natural Gas	187.5 Kg/Hr.			
3	D.G. Set Capacity -1000 KVA	Diesel	270 Lit/Hr.	11 Dia:220 mm		
4	D.G. Set Capacity -1000 KVA	Diesel	270 Lit/Hr.	11 Dia:220 mm		
5	Ethlation Furnace Vent	Coal	150 Kg/Hr.	42	Wet Scrubber	
6	Boiler-II Capacity-67 TPH	Coal	310 MT/Daily.	45 Dia:1400 mm	ESP+ Lime dosing	SPM SO <sub>2</sub> NO <sub>x</sub>

**Complied**

Unit has not exceeded the fuel consumption for TFH, steam boiler, furnace and stand by DG set.

The details of fuel consumption data given as month wise. (last six months)

Month	Coal (MT/Day)	Natural Gas (Kg/Hr.)	Diesel (Lit./Hr.)
<b>October 2024</b>	151.8	62.9	0.4
<b>November 2024</b>	163.4	66.7	0.4
<b>December 2024</b>	180.7	85.1	0.4
<b>January 2025</b>	180.7	55.9	0.3
<b>February 2025</b>	171.1	69.5	0.3
<b>March 2025</b>	170.5	66.7	3.2

ii.	<b><u>Condition No. 13 shall now be read as under:</u></b> 13. Unit shall provide adequate APCM with flue gas generation sources as mentioned above:	<b>Complied</b>  The unit has provided ESP and lime dosing provision as APCM to the boilers.
iii.	<b><u>Condition No: 14, 15 and 16 shall be considered as null and void.</u></b>  Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/5(f)/171/2013 dated 05/07/2013 shall remain unchanged.	<b>Noted and Complied</b>

Amended EC condition as EC 2020, EC No. SEIAA/GUJ/EC/5(f)/255/2024 dated 19/02/2024.

1. **Condition no.8. 17 & 19 shall now be read as under:**

**Condition No.8 (A.8 Water):**

Total water requirement for the proposed project shall not exceed 3067 KLD. Unit shall reuse 776 KLD of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 2291 KLD and it shall be met through GIDC water supply only. Prior permission from concerned authority for withdrawal of water shall be obtained.

The tabular data below indicate that unit has not exceeded the prescribed limit for water consumption i.e. 3067 KLD. Metering facilities have been provided along with flowmeters and the records are maintained for water consumption. The data of the last six months of water consumption as per GIDC bill is given in the following table.

Particular	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025
Fresh Water Consumption KLD	798.47	798.47	798.47	798.47	712.13	771.13
Recycled Water (RO Permeate + MEE Condensate) Consumption KLD	125.4	228.1	191.4	191.6	154.2	192.4
Total Water Consumption KLD	923.87	1026.57	989.87	990.07	866.33	963.53

The water consumption is within the prescribed limit.

The water consumption is within the prescribed

limit. Water bill of the same is attached as [Annexure-7](#)

In addition to this, the unit is also maintaining a logbook for the water consumption day-to-day basis. Photographs of water meter are provided below:



water meters

ii.

**Condition No. 17 (A.3 Air):**

12. Unit shall not exceed fuel consumption for boilers TFHs and D G Sets as mentioned below:

Sr. N o.	Stack attached to	Type of fuel	Qua nti ty	Stack heigh t in mete rs	APCM	Param eters
1	Boiler-I Capacity- 20 TPH	Coal	3.33 3 MT/ Hr.	42 (Com mon chim ney with Boiler )	ESP + Pry scrubbe r (Lime dosing along	SPM SO <sub>2</sub> NO <sub>x</sub>
2	Thermic Fluid Heater Capacity- 20 Lac. Kcal/Hr.	Natur al Gas	0.1 875 MT/ hr			
3.	Boiler-II Capacity-67 TPH	Coal	12.9 17 MT/ hr.	80 (Com mon chim ney)	ESP + Pry scrubbe r (Lime dosing along	
4.	Boiler-III Capacity-67 TPH	Coal	12.9 17 MT/ hr.		ESP + Pry scrubbe r (Lime dosing along g	
5.	Thermic Fluid Heater Capacity- 40 Lac. Kcal/Hr.	Coal or Natur al Gas	1.4 MT/ hr Or 0.56 25 IVIT/ hr	35	ESP + Pry scrubbe r (Lime dosing along	
6	D.G. Set Capacity	Diesel	270 Lit/H	30		

**Complied**

Unit has not exceeded the fuel consumption for TFH, steam boiler, furnace and stand by DG set.

The details of fuel consumption data given as month wise. (last six months)

Natural Gas Consumption		
Month	Total Consumption (kg/Month)	Total Consumption Kg/Hr
October 2024	62,392.94	86.7
November 2024	64,057.05	89.0
December 2024	84,385.55	117.2
January 2025	55460.47	77.0
February 2025	64479.16	89.6
March 2025	66188.09	91.9

Month	Total Diesel Consumption (Ltr/Month)	Diesel Consumption (Ltr/Hr)
October 2024	258	0.4
November 2024	268	0.4
December 2024	238.85	0.4
January 2025	277.10	0.3
February 2025	200.6	0.3
March 2025	2293.29	3.2

Month	Coal Consumption in 67 TPH & 14 TPH boiler (MT/Month)	Coal Consumption for boiler (MT/day)	Coal Consumption for boiler (MT/Hr)
October 2024	4,706.0	151.8	6.3
November 2024	4,903.0	163.4	6.8
December 2024	5,601.0	180.7	7.5

**M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

	-1000 KVA		r.		
7	D.G. Set Capacity -1000 KVA	Diesel	270 Lit/H r.	30	
8	D.G. Set Capacity -1500 KVA	Diesel	300 Lit/H r.	30	
9	D.G. Set Capacity -2500 KVA	Diesel	750 Lit/H r.	30	

**Note:**

1. For 40 Lakh kcal/Hr thermic fluid heater if natural gas use only then NOx burner and adequate stack height will be provided.
2. It is to be noted that steam shall be supplied from sister concern unit M/s. Aarti Industries Limited (Unit-II), Dahej, SEZ-II (PCB ID# 58381) i.e., 70 TPH and Aarti Industries Limited (Unit-III), Dahej, SEZ-II (PCB ID# 62935) i.e., 59 TPH. Condensate shall be sent back to the same unit.

**As per Environmental Clearance File No. SEIAA/GUJ/EC/5(f)/2630/2022 on 07/11/2022 condition no.17**

Unit shall not exceed fuel consumption for boilers. TFHs and D G Sets as mentioned below:

Sr. No	Source of Emission	Stack Height	Fuel Type	Fuel Consumption	Types of Pollution
1	Boiler-1 (Cap. 20TPH)	42 (Common chimney with Boller)	Coal	3333.3 kg/ hr	PM: 150 mg/N m3
2	TFH-1 (Cap. 20 Lac kCal/		Natural Gas	187.5 kg/ hr	SOx: 100 ppm

<b>January 2025</b>	5,602.0	180.7	7.5
<b>February 2025</b>	4963	171.1	7.1
<b>March 2025</b>	5,287	170.5	7.1

	hr)				& NOx: 50 ppm
3	Boiler-I I (Cap. 67 TPH)	80	Coal	310 MT/day	
4	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr	
5	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr	
6	DG Set Cap. 1500 kVA	30	Diesel	300 lit/ hr	
7	Ethylati on Furnac e Vent	42	Coal	150 kg/ hr	
<b>Proposed Additional</b>					
1	Boiler-I II (Cap. 67 TPH)	80 (Comm on chimne y with Boller-I I)	Coal	12.917 MT/ hr	PM: 150 mg/N m3  SOx: 100 ppm & NOx: 50 ppm
2	TFH-II (Cap. 40 Lac kCal/ hr)	35	Coal	1.4 MT/ hr	
3	DG Set Cap. 2500 kVA	30	Diesel	750 lit/ hr	
<b>Total After Proposed Expansion</b>					
1	Boiler-	42	Coal	3.3333	PM:

	1 (Cap. 20TPH)	(Comm on chimney with Boller)		MT/ hr	150 mg/N m3
2	TFH-1 (Cap. 20 Lac kCal/ hr)		Natural Gas	0.1875 MT/ hr	SOx: 100 ppm &
3	Boiler-I I (Cap. 67 TPH)	80 (Comm on chimney)	Coal	12.917 MT/ hr	NOx: 50 ppm
4	Boiler-I II (Cap. 67 TPH)		Coal	12.917 MT/ hr	
5	TFH-II (Cap. 40 Lac kCal/ hr)	35	Coal	1.4 MT/ hr	
6	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr	
7	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr	
8	DG Set Cap. 1500 kVA	30	Diesel	300 lit/ hr	
9	DG Set Cap. 2500 kVA	30	Diesel	750 lit/ hr	



iii.

**Condition No. 19 (A.3 Air):**

Unit shall provide APCM with operation sources as mentioned below,

Sr, No	Specific Source of emission (Name of the Product & Process)	Type of emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APcM)
1	Scrubber to Hydrolysis Process - Plant I & II	HCl	11	Caustic Scrubber
2	Flare stack (Reactor NG consumption 10 kg/hr for flaring)	-	18	-

Alkali scrubber has been provided for control of HCl gas emission from the Ethylation and Propylation process. Furnace has been converted into the above said scrubber through CCA No. AWH-112729 and dated 15/06/2021.

HCL emissions in the Ethylation and Propylation process are monitored by an approved NABL / GPCB/MOEF and CC authorized party (Unistar Environment and Research Labs Pvt. Ltd.). The results are given below table. Copy attached in the following table. See [Annexure-10](#).

**Unistar NABL Certification No.: TC-7753**

Month	HCl (mg/Nm3)	GPCB Limit
April 2024	BDL	20 mg/Nm3
May 2024	BDL	
June 2024	BDL	
July 2024	BDL	
August 2024	BDL	
September 2024	BDL	
Note: BDL-Below Detection Limit		

The results are below the prescribed limit.

Unit has not obtained CC and A for CaCO<sub>3</sub> dryer as it is not a part of existing production for Ethylation and Propylation products.



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,  
GANDHINAGAR - 382010,  
(T) 079-23232152

By R.P.A.D.

**CONSOLIDATED CONSENT AND AUTHORIZATION(CC & A - Amendment)**  
**CCA AMENDMENT NO: AWH -131146**

**NO: GPCB/BRCH-B/CCA- 178(4)/ID-41201/**

**DT: /02/2024**

To,  
M/s. Aarti Industries Ltd.  
Plot No. Z/103/H, Dahej SEZ-II,  
Ta: Vagra, Dist: Bharuch.

**SUB:** Amendment in Consolidated Consent & Authorization (CC&A) under various Environmental Acts/ Rules.

**REF:** (1) Your application No. 280463 dated 29/06/2023.  
(2) ToR to CTE No.51032 dated: 23/12/2021.  
(3) CCA No. AWH - 112729 dated: 15/06/2021(CCA Renewal)  
(4) CCA - Amendment No. WH- 116900 dated: 04/07/2022.

This has reference to the CCA order No: AWH-112729, issued vide letter no. GPCB/BRCH-B/CCA-178(3)/ID-41201/592461, dated 15/06/2021 and further amended dated 04/07/2022 under the provisions of the various Environmental Act/ Rules, which stands amended as under.

**The Validity of this order will be up to 19/05/2028.**

**1. The list of proposed products to be manufactured shall be as follows:**

Sr. No.	Products	Quantity (MT/Annum)		
		Existing	Proposed	Total
A	<b>Ethylation and Propoylation Products</b>			
1	2-Methyl 6-Ethyl Aniline And/Or	18000	0	18000
2	2,6 Diethyl Aniline And/Or			
3	3-Methyl 2-6 Diethyl Aniline And/Or			
4	4-Methyl 2-6 Diethyl Aniline And/Or			
5	Isopropyl Aniline and 2,6 Diisopropyl Aniline And/Or			
6	2-Methyl-6-Isopropyl Aniline And/Or			
7	4-Methyl 2-6 Diisopropyl Aniline And/Or	0	18000	
8	<b>2-Ethyl Aniline (OEA)</b>			

## 2. **Specific conditions:**

- a) Unit shall maintain ZLD.
- b) Unit shall comply all condition of EC dated 07/11/2022.
- c) Unit shall send hazardous waste to actual end users who are having Rule-9 permission under HOWR-2016 and valid CCA after making MoU.
- d) Unit shall send their hazardous waste to authorized endusers who are having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers and submit MoU.
- e) All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.
- f) Unit shall follow spent solvent management guideline framed by Board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.

## 3. **CONDITION UNDER THE WATER ACT:**

- 3.1 The condition No. 3.2 for Water Consumption under Water Act of the CCA order No: AWH-112729, issued vide letter no. GPCB/ BRCH-B/CCA-178(3)/ID-41201/592461, dated 15/06/2021 and further amended dated 04/07/2022 is amended and shall now be read as under.

Water	Water consumption (KLD)		
	Existing	Proposed	Total
Domestic	7 (F)	53 (F)	60 (F)
Gardening	18 (F)	39 (-18 F+ 57 R)	57 (R)
Industrial	1225 (1060.84 F+ 164.16 R)	49 (54.16 F+ (-5.16) R)	1274 (1115 F + 159 R)
Total	1250 (1085.84 F+ 164.16 R)	141 (89.16 F + 51.84 R)	1391 (1175 F + 216 R)

- 3.2 The condition No. 3.3 for Wastewater Generation under Water Act of the CCA order No: AWH-112729, issued vide letter no. GPCB/ BRCH-B/CCA-178(3)/ID-41201/592461, dated 15/06/2021 and further amended dated 04/07/2022 is amended and shall now be read as under.

Type	Wastewater Generation (KLD)		
	Existing	Proposed	Total
Domestic	7	50	57
Industrial	158.4	4.6	161
Total	165.4	56.6	218



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

- 3.3 The condition No. 3.4 for Mode of disposal of wastewater under Water Act of the CCA order No: AWH-112729, issued vide letter no. GPCB/ BRCH-B/CCA-178(3)/ID-41201/592461, dated 15/06/2021 and further amended dated 04/07/2022 is amended and shall now be read as under.

**Mode of disposal of wastewater:**

- a) **Process Effluent Stream:** High COD/TDS effluent from washing (10 KLD)&Process(4 KLD) shall be sent to stripper solvent then equalization tank and then sent to ETP having Primary, Secondary, Tertiary treatment facility.
- b) **Utility Effluent Stream:** Low conc. stream of Cooling tower blow down (35 KLD), boiler blow down (62 KLD) and DM water reject (50 KLD) and 14 KLD effluent after having treatment in ETP shall be sent to utility RO. 118 KLD RO permeate shall be reused in Cooling Tower and 43 KLD RO reject shall be sent to MEE followed by ATFD. 41 KLD MEE condensate shall be reused in cooling tower. Hence, unit shall maintain ZLD.
- c) Generated 57 KLD domestic sewage shall be treated in STP and treated sewage shall be reused for gardening/plantation within premises after confirming norms prescribed as below.

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	pH	6.5 to 9
2	Total Suspended Solids	<100 mg/l
3	Total Coliform (MPN/100ml)	<1000 MPN/100ml
4	BOD	30 mg/l

**4. CONDITIONS UNDER THE AIR ACT:**

- 4.1 There shall be no change in fuel consumption & flue gas emission from proposed expansion.
- 4.2 There shall be no change in process gas emission from proposed expansion.

**5 CONDITIONS UNDER HAZARDOUS & OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016**

- 5.1 Unit shall comply with provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules-2016.
- 5.2 The condition No. 6.2 under authorization for Hazardous & other wastes of the CCA order No: AWH-112729, issued vide letter no. GPCB/ BRCH-B/CCA-178(3)/ID-41201/592461, dated 15/06/2021 and further amended dated 04/07/2022 is amended and shall now be read as under.

Sr. No.	Name of Haz. Waste	Category Number	Quantity (MT/Year)			Facility
			Exi.	Pro.	Total	
1.	ETP Sludge + MEE Salt	35.3	482	0	482	Collection, Storage, Transportation & send for pre/Co-processing to cement industry registered with XGN or CHWIF for incineration or send common TSDF Site.

2.	Used Oil/ Spent Oil	5.1	9	0	9	Collection, Storage, Transportation and send to authorized recyclers/refiners.
3.	Discarded container (Drums /Carboys/ Bottles/ Bags)	33.1	6.2	0	6.2	Collection, storage, Decontamination/ Detoxification, Reuse or Transportation and send to Authorized Decontamination facility.
4.	Process Waste (Residue)	26.1	600	1400	2000	Collection, Storage, Transportation & send for Co-processing to cement industry registered with XGN or CHWIF for incineration.
5.	Spent Catalyst	26.5	0.12	0	0.12	Collection, Storage, Transportation and send to authorized recyclers.
6.	Aluminum Hydroxide $Al(OH)_3$	26.1	12168	13375	25543	Collection, Storage, Transportation & send to actual end users having a rule-9 permission under HOWR-2016, valid CCA after making MoU or send for Co-processing to cement industry registered with XGN or CHWIF for incineration or
7.	Non Recycle Plastic waste, PPE & Insulation waste/ Cotton waste	33.1	20	0	20	Collection, Storage, Transportation and send to authorized recyclers/ Preprocessor or CHWIF for incineration or send common TSDF Site.
8.	Spent Carbon	26.1	20	0	20	Collection, Storage, Transportation & send for Co-processing to cement industry registered with XGN or CHWIF for incineration.
9.	Off- Specification Product	26.1	12	8	20	Collections, storage, transportation, and send for Co-processing to cement industry registered with XGN or disposal at common incinerator facility.
10.	Spent Resin	35.2	0	10	10	Collections, storage, transportation, and send for Co-processing to cement



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,  
GANDHINAGAR - 382010,  
(T) 079-23232152

						industry registered with XGN or CHWIF for incineration or send common TSDF Site.
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Note: Fly ash-11680MT/Year, RO Membrane/ Cartridge Filter- 8 MT/Year, Battery Waste- 5 MT/Year, E- Waste/ Electrical Waste- 5 MT/Year, Glass Waste- 10 MT/Year, Office Waste- 5 MT/Year, Biomedical Waste- 1 MT/Year, STP Waste(Sludge)- 416 MT/Year shall be managed /disposed as per applicable prevailing rules/ notification amended from time to time.

- 6 All other conditions of the CCA order No: AWH-112729, issued vide letter no. GPCB/ BRCH-B/CCA-178(3)/ID-41201/592461, dated 15/06/2021 and further amended dated 04/07/2022 shall remain unchanged.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

(M. R. Macwana)  
UNIT HEAD- BHARUCH

Outward No:785188, 02/03/2024

A.A.DOLTI  
MEMBER SECRETARY  
SEIAA (GUJARAT)



Government of Gujarat

STATE LEVEL ENVIRONMENT  
IMPACT ASSESSMENT  
AUTHORITY  
GUJARAT

No. SEIAA/GUJ/EC/5(f)/ 173 /2013

Date: 5 JUL 2013  
Time Limit

**Sub: Environment Clearance to M/s. Anushakti Specialities Ltd. (Liability Partnership) for setting up of a pigment manufacturing unit at Plot No. Z/103/H, Dahej SEZ, Tal. Vagra, Dist. Bharuch..... in Category 5 (f) of Schedule annexed with EIA Notification dated 14/9/2006.**

Dear Sir,

This has reference to your application along with Form-I vide letter dated 07/01/2012, EIA Report vide letter dated 09/01/2013, Additional information / documents vide letter dated 03/06/2013, submitted to the SEAC, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for M/s. Anushakti Specialities Ltd. (Liability Partnership) for setting up of a pigment manufacturing unit at Plot No. Z/103/H, Dahej SEZ, Tal. Vagra, Dist. Bharuch. The unit is proposing to manufacture synthetic organic chemicals. The proposed products and by-products with production capacities are shown in table below:

Sr. No.	Name of product / by-product	Capacity in MT/Month
1	<b>Ethylation and Propoylation Products</b> [2- Methyl 6- Ethyl Aniline 2,6-Diethyl Aniline 3- Methyl 2-6 Diethyl Aniline 4-Methyl 2-6 Diethyl Aniline Isopropyl Aniline and 2, 6 Diisopropyl Aniline 2- Methyl-6-Isopropyl Aniline 4- Methyl 2,-6 Diisopropyl Aniline]	1500
2	<b>Hydrogenated Products</b> [Ortho Toludene Chloro Aniline DiChloro Aniline TriChloro Aniline Ortho Phenylene Diamine Phenylene Diamine 3,4 Diamino Diphenyl Ether 4,4 Diamino Diphenyl Ether]	500
3	<b>Chlorination Products</b>	
	Monochloro Benzene	1250
	Ortho Dichloro Benzene	800
	Para Dichloro Benzene	1200
	<b>By-products</b>	
4	Calcium Chloride (90% basis) or HCl (30%)	2416.54 or 4844.22
5	Al(OH) <sub>3</sub> or Al <sub>2</sub> O <sub>3</sub>	122.1 or 79.65
6	HF	19.5
7	H <sub>3</sub> BO <sub>3</sub>	20.25

The proposed project falls in the project no. 5(f) in the schedule of the EIA Notification-2006. As the project is located in notified industrial estate, it falls in Category B.

The project activity is covered in 5(f) and is of 'B' Category. Since, the proposed project is located in the notified industrial area, public consultation is not required as per paragraph 7(i) (III) (i) (b) of the Environment Impact Assessment Notification-2006.

The SEAC, Gujarat had recommended to the SEIAA, Gujarat, to grant the Environment Clearance to this project for the above-mentioned project. The proposal was considered by SEIAA, Gujarat in its meeting held on 01.07.2013 at Gandhinagar. Since the public consultation is not required for the project, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14<sup>th</sup> September, 2006 subject to the compliance of the following conditions.

#### **SPECIFIC CONDITIONS:**

##### **A.1 WATER:**

1. Fresh water requirement shall not exceed 614.6 KL/day and it shall be met by water supply system of the Dahej SEZ. Metering of water shall be done and records of daily water consumption shall be maintained. No ground water shall be used for the project.
2. Industrial effluent generation shall not exceed 86.85 KL/day whereas domestic wastewater generation shall not exceed 7 KL/day.
3. Effluent to the tune of 25.85 KL/day [16.45 KL/day of process and washing effluent after solvent recovery by distillation, 2.4 KL/day of scrubber effluent and 7 KL/day of domestic wastewater] shall be treated in the ETP comprising of primary, secondary and tertiary treatment facilities.
4. 25.85 KL/day of treated effluent from ETP, 20 KL/day of D.M. generation effluent, 13 KL/day of boiler blow-down and 35 KL/day of cooling tower blow-down; i.e. total 93.85 KL/day of effluent shall be passed through RO system. RO permeate water to the tune of 70.35 KL/day shall be reused in cooling tower whereas RO reject water to the tune of 23.5 KL/day shall be evaporated completely with help of MEE. Hence, there shall be no effluent discharge from the unit.
5. Condensate water from MEE shall be completely reused in cooling tower.
6. The unit shall provide adequate ETP comprising of primary, secondary & tertiary treatment facilities, RO Plant and MEE for treatment and disposal of wastewater. These facilities shall be operated regularly and efficiently so as to achieve and maintain zero discharge status.
7. The unit shall not get GIDC underground drainage connection and strictly adhere to the zero discharge status.
8. The unit shall provide metering facility, maintain records of effluent treated, reused & evaporated and furnish it to the GPCB from time to time.
9. Proper logbooks of ETP, RO Plant and MEE operations and also showing chemical consumption, power consumption, quantities of effluent treated, reused, evaporated reused etc. shall be maintained and furnished to the GPCB from time to time.
10. Regular performance evaluation of the ETP shall be undertaken every year to check its adequacy, through credible institutes like L.D. College of Engineering, NPC or such other institutes of similar repute, and its records shall be maintained.
11. The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.

##### **A.2 AIR:**

12. Natural gas to the tune of 2000 Kg/Hr, 187.5 Kg/Hr & 5 Kg/Hr shall be used as a fuel in Boiler-1 (20 TPH), Thermic Fluid Heater & flaring respectively.
13. Diesel to the tune of 270 Lit/Hr shall be used as a fuel in each of the D.G.Sets (1000 KVA x 2 no.).
14. Coal to the tune of 3333.3 Kg/Hr, 200 Kg/Hr & 200 Kg/Hr. shall be used as a fuel in Boiler-2 (20 TPH), CaCO<sub>3</sub> Drier & Ethylation Furnace respectively.
15. ESP shall be provided for control of flue gas emission from the coal fired Boiler-2.
16. Wet scrubbers shall be provided for control of flue gas emission from CaCO<sub>3</sub> Drier and Ethylation Furnace.
17. The process emission of HCl from CaCO<sub>3</sub> Reactor and HCl & Cl<sub>2</sub> from Chlorinator shall be controlled with help of Falling Film Absorber followed by Alkali Scrubber.
18. The air pollution control equipments / systems shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at vent / stack outlets.
19. Stacks of adequate height as per prevailing norms shall be provided for the flue gas and process emissions.
20. The unit shall undertake measures for solvent recovery and adequate reflux condensers and chilled brine secondary condensers shall be provided for controlling escape of low boiling solvents. Solvent recovery shall not be less than 95 percent in any case.
21. Measures shall be taken to reduce the process vapors emissions as far as possible. Use of toxic solvents shall be minimum. All venting equipment shall have vapour recovery system.
22. The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health).
23. Regular monitoring of ground level concentrations of SO<sub>2</sub>, NO<sub>x</sub>, HCl, Cl<sub>2</sub> PM<sub>10</sub> and PM<sub>2.5</sub> shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB.



If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.

#### **A.3 HAZARDOUS / SOLID WASTES:**

24. The unit must strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2008. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.
25. The hazardous wastes shall be stored in separate designated hazardous waste storage facility with impervious bottom and leachate collection facility, before its disposal.
26. ETP sludge shall be sent to the Common TSDF. The unit shall obtain necessary membership of the nearest TSDF operator before commencing production activities.
27. Residues from Hydrogenation and Chlorination shall be sent to the Common Hazardous Waste Incineration [CHWI] facility. The unit shall obtain membership of the nearest CHWI operator before commencing production activities.
28. Spent catalyst shall be sold only to the registered recyclers / regenerators.
29. Used oil shall be sold only to the registered recyclers.
30. HCl (30%) shall be converted to Calcium Chloride in onsite  $\text{CaCl}_2$  Plant and HCl (30%) shall be sold to sister concern M/s. Aarti Salt & Chemical located at Plot No. A/1-6 & 9, Phase-I, GIDC, Vapi, only during unforeseen circumstances.
31. Other co-products / spent acids shall be sold only to authorized actual end consumers and records of sell shall be maintained and furnished to the GPCB from time to time.
32. The discarded containers / drums / liners / bags shall be either reused or sold only to registered recyclers after its decontamination.

#### **A.4 SAFETY:**

33. The project management shall strictly comply with the provisions made in the Factories Act, 1948 as well as Manufacture, Storage and Impact of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals.
34. Necessary approvals from PESO and concerned Govt. Authorities shall be obtained before commissioning of the project.
35. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of hazardous chemicals; especially solvents and chlorine.
36. Proper ventilation shall be provided in the work area.
37. Storage and use of hazardous chemicals shall be minimized to the extent possible.
38. Hazardous materials storage shall be at an isolated designated location, bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.
39. Storage of hazardous chemicals shall be in multiple small capacity tanks / containers instead of one single large capacity tank to reduce the risk.
40. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Close handling system for chemicals shall be provided.
41. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
42. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity at all the times.
43. Necessary tie up with the nearby doctor qualified for occupational health shall be made to ensure that the medical treatment is given within the shortest possible time in case of any adverse condition.
44. Training shall be given to all workers on safety and health aspects of handling chemicals.
45. Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act and Rules.
46. The project management shall prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health.
47. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act & Rules.
48. All transporting routes within the factory premise shall have paved roads to minimize splashes and spillages.

#### **A.5 NOISE:**

49. The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules.

#### **A.6 WASTE MINIMIZATION & CLEANER PRODUCTION:**

50. The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.
51. The company shall undertake following waste minimization measures:
  - a. Metering and control of quantities of active ingredients to minimize waste.
  - b. Reuse of by-products from the process as raw materials or as raw materials substitutes in other process.
  - c. Use of automated and close filling to minimize spillages.
  - d. Use of close feed system into batch reactors.
  - e. Venting equipment through vapour recovery system.
  - f. Use of high pressure hoses for equipment cleaning to reduce wastewater generation.

- g. Sweeping / mopping of floor instead of floor washing to avoid effluent generation.
- h. Regular preventive maintenance for avoiding leakage, spillage etc

#### **A.7 GREEN BELT:**

- 52. The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation at suitable open land on road sides and other open areas within the GIDC / SEZ area or in nearby locality / schools and submit an action plan of plantation for next three years to the GPCB.
- 53. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.

#### **B. OTHER CONDITIONS:**

- 54. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
- 55. A separate Environment Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions.
- 56. The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported.
- 57. During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
- 58. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
- 59. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
- 60. The company shall carry out socio-economic developmental / community welfare activities in consultation with the District Development Officer / District Collector.
- 61. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the EIA report.
- 62. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
- 63. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
- 64. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
- 65. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
- 66. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
- 67. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
- 68. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
- 69. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
- 70. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
- 71. This environmental clearance is valid for five years from the date of issue.
- 72. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

With regards,  
Yours sincerely,

(A.A.DOLTI)  
Member Secretary

**Issued to:**

**Shri Kirit R. Mehta, Director,  
Anushakti Specialities Ltd.,  
Plot No. 801/23, GIDC Estate,  
Phase-III, Vapi.**

**Copy to:-**

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
6. Select File

**(A.A.DOLT)**

**Member Secretary**

S. M. SAIYAD, IFS  
MEMBER SECRETARY  
SEIAA (GUJARAT)



STATE LEVEL ENVIRONMENT  
IMPACT ASSESSMENT  
AUTHORITY  
GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/5(f)/547/2019

Date: 10 APR 2019

BY R.P.A.D.

**Amendment to Environment Clearance Order No:- SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013.**

(Under the provision of Environmental Impact Assessment (EIA) Notification, 2006)

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification, 2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted to **M/s. Aarti Industries Limited located at Plot No. Z/103/H, Dahej SEZ, Ta: Vagra, Bharuch**, vide this office letter no. **SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013**, is being subjected to amendment for the following change in the project.

And whereas SEIAA has granted Environment Clearance vide office order letter no. **SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013**, under the provisions of the aforesaid Notification.

And whereas project proponent has applied for amendment in the environmental clearance vide their online application vide No. **SIA/GJ/IND2/25978/2013 dated 18/07/2018**. The project was scheduled for hearing in the SEAC meeting held on 17/09/2018. Additional information / documents submitted vide letter dated 18/12/2018 to the SEAC.

The SEAC, Gujarat had recommended the project vide their letter dated 08/03/2019 to grant amendment in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 08/01/2019. The proposal was considered by SEIAA, Gujarat in its meeting held on 08/03/2019 at Gandhinagar. After careful consideration, Environment Clearance order dated 02/07/2013 is hereby amended as under, subject to amendment with respect to changes in the planning of the project.

1. **Condition No. 1, 2, 4, 12, 14, & 15** of the environmental clearance order no. **SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013** have been amended and shall be read as under:

**Condition No. 1 -** Total water requirement for the project shall not exceed **1186.5 KLD**. Unit shall reuse 171.5 KLD of waste water. Hence, fresh water requirement shall not exceed 1186.5 KLD and it shall be met by water supply system of the Dahej SEZ. Metering shall be done and records of daily water consumption shall be maintained. No ground water shall be used for the project. Prior permission from the concerned authority shall be obtained for withdrawal of water.

**Condition No. 2 -** Industrial Effluent generation shall not exceed 165.85 KLD whereas domestic waste water generation shall not exceed 7 KLD.

**Condition No. 4 -** 25.85 KLD of treated effluent from ETP, 50 KLD of DM generation effluent, 62 KLD of boiler blow down and 35 KLD of cooling tower blow down i.e. Total 165.85 KLD of effluent shall be passed through RO system (Cap. 150 KLD + 60 KLD) and MEE (Cap. 60 KLD). RO Permeate (129 KLD) and MEE condensate (42.5KLD) water to the tune of 171.5 KLD shall be reused in cooling tower. Hence there shall be no effluent discharge from the unit.

**Condition No. 12 -** Natural gas to the tune of 187.5 kg/Hr & 5 Kg/Hr shall be used as a fuel in Thermic fluid Heater & Flaring respectively.



**Condition No. 14 -** Coal to the tune of 3333.3 kg/Hr, 12917 Kg/Hr , 200 kg/Hr & 200 Kg/Hr shall be used as a fuel in 20 TPH steam Boiler -1, 67 TPH steam Boiler -2, CaCO<sub>3</sub> Drier Vent & Ethylation Furnace Respectively.

**Condition No. 15-** Adequate Electrostatic Precipitator-ESP as APCM shall be provided for control of flue gas emission from the coal fired Boilers (20 TPH & 67 TPH Boilers).

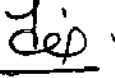
**2. The following additional Conditions shall be added in the environmental clearance order no. SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013 and shall be read as under:**

- Unit shall remove existing Natural gas based 20 TPH steam Boiler.
- There shall be no change in product profile as prescribed in the earlier Environmental Clearance dated 02/07/2013.
- Unit shall take all precautionary measures during transfer of steam to their sister concern units namely M/s. Aarti Industries Ltd. (Unit II) located at Plot No. Z/103/C & M/s. Aarti Industries Ltd. (Unit III) located at Plot No. Z/111/B.
- Unit shall obtain necessary permissions, if any, from the concern authority regarding laying piping network for steam supply.
- Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.
- A long term study of radio activity and heavy metals contents on coal/lignite to be used shall be carried out through a reputed institute and results thereof analyzed regularly and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal/lignite and fly ash (including bottom ash) shall be put in place.
- A flue gas stack of 80 m height shall be provided with online monitoring system to proposed Steam Boiler. Mercury emissions from stacks shall also be monitored on periodic basis. However, unit shall comply the specific condition no. 13 above regarding height of the Boiler stack.
- High efficiency Electro Static Precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that if emission from ESP exceeds the specified standard prescribed in the Environment (Protection) Rules, 1986 as amended from time to time, utilization of boiler capacity shall reduce so that flue gas emission from the stack meets with the specified standard or boiler shall shut down totally.
- Third party monitoring of the functioning of the ESP along with its efficiency shall be carried out once in a year through a reputed institute / organization.
- Lime stone injection technology shall be adopted to control SO<sub>2</sub> and it shall be ensured that SO<sub>2</sub> levels in the ambient air do not exceed the prescribed standards.
- The company shall prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.
- Unit shall comply provisions of MoEFCC's O.M. No. 22-65/2017-IA.III dated 01/05/2018 regarding Corporate Environment Responsibility (CER). Fund allocation for Corporate Environment Responsibility (CER) shall be made as per the said OM dated 01/05/2018 for various activities therein. Item-wise details along with time bound action plan shall be prepared and submitted to the concern authorities.

- Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries as mentioned at Sr. no. XX.
- The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.
- All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
- Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013 shall remain unchanged.

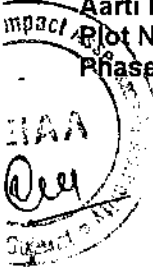
With regards,  
Yours sincerely,



(S. M. SAIYAD)  
Member Secretary

Issued to:

Shri Kirit R. Mehta (Director),  
Aarti Industries Ltd.,  
Plot No. 801/23, GIDC Estate,  
Phase-III, Vapi- 396195





Dr. K. RAMESH, IFS  
MEMBER SECRETARY  
SEIAA (GUJARAT)



Government of Gujarat

STATE LEVEL ENVIRONMENT  
IMPACT ASSESSMENT  
AUTHORITY  
GUJARAT

No. SEIAA/GUJ/EC/5(f)/1639/2020

Date: 31 DEC 2020 BY R.P.A.D.

Amendment to Environment Clearance Order No:- SEIAA/GUJ/EC/5(f)/171/2013 dated 02/07/2013 & SEIAA/GUJ/EC/5(f)/574/2019 dated 10/04/2019.

(Under the provision of Environmental Impact Assessment (EIA) Notification, 2006)

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification, 2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted to M/s. Aarti Industries Limited of 'Synthetic Organic Chemicals' manufacturing plant at Plot No. Z/103/H, GIDC notified industrial Estate, Dahej SEZ, Tal.Vagra, Dist. Bharuch, State: Gujarat, vide this office letter no. SEIAA/GUJ/EC/5(f)/171/2013 dated 05/07/2013 & SEIAA/GUJ/EC/5(f)/574/2019 dated 10/04/2019, is being subjected to amendment for the following change in the project.

And whereas SEIAA has granted Environment Clearance vide office order letter no. SEIAA/GUJ/EC/5(f)/171/2013 dated 05/07/2013 & SEIAA/GUJ/EC/5(f)/574/2019 dated 10/04/2019, under the provisions of the aforesaid Notification.

And whereas project proponent has applied for amendment in the environmental clearance vide their online application vide No. SIA/GJ/IND2/151995/2020 dated 10/07/2020. The project was scheduled for hearing in the SEAC meeting held on 26/10/2020.

The SEAC, Gujarat had recommended the project vide their letter dated 02/12/2020 to grant amendment in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 26/10/2020. The proposal was considered by SEIAA, Gujarat in its meeting held on 08/12/2020 at Gandhinagar. After careful consideration, Environment Clearance order dated 05/07/2013 is hereby amended as under.

1. Change in Condition No. 12, 13, 14, 15 & 16 of the environmental clearance order no. SEIAA/GUJ/EC/5(f)/171/2013 dated 05/07/2013 have been amended and shall be read as under and Extension of validity of EC granted to M/s Aarti Industries Ltd for further three years i.e 05/07/2023 with remaining condition unchanged in EC granted by SEIAA, Gujarat vide Letter No. SEIAA/GUJ/EC/5(f)/ 171 /2013 Dated: 5 July 2013.

i. Condition No. 12 shall now be read as under:

12. Unit shall not exceed fuel consumption for THF, steam boiler, furnace and stand by DG Set as mentioned below:

Sr. No.	Stack attached to	Type of Fuel	Quantity	Stack Height in meters	Air pollution control system	Parameters
1.	Boiler -I Capacity - 20 TPH	Coal	3333.3 Kg/Hr	42 (Common chimney with Boiler)	ESP	SPM SO <sub>2</sub> NO <sub>x</sub>
2.	Thermic Fluid Heater Capacity - 20 Lac Kcal/Hr	Natural Gas	187.5 Kg/Hr			



Office : Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010  
Phone No.:- (079) 232-32152, 232-41514 Fax No.:- (079) 232-22784  
E-mail : [msseiaagj@gmail.com](mailto:msseiaagj@gmail.com), Website:- [www.seiaa.gujarat.gov.in](http://www.seiaa.gujarat.gov.in)



3.	D.G. Set Capacity – 1000 KVA	Diesel	270 Lit/Hour	11 Dia:220 mm	--	
4.	D.G. Set Capacity – 1000 KVA	Diesel	270 Lit/Hour	11 Dia:220 mm	--	
5.	Ethylation Furnace vent	Coal	150 Kg/Hr	42	Wet Scrubber	
6.	Boiler –II Capacity – 67 TPH	Coal	310 MT/Day	45 Dia:1400 mm	ESP+ Lime dosing	SPM SO <sub>2</sub> NO <sub>x</sub>

ii. **Condition No. 13 shall now be read as under:**

13 Unit shall provide adequate APCM with flue gas generation sources as mentioned above:

iii. **Condition No: 14, 15 & 16 shall be considered as null and void.**

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/5(7)/171/2013 dated 05/07/2013 shall remain unchanged.

With regards,  
Yours sincerely,

(Dr. K. RAMESH)  
Member Secretary



**Issued to:**

Aarti Industries Limited,  
Z/103/H,  
GIDC notified industrial Estate,  
Dahej SEZ,  
Tal.Vagra,  
Dist. Bharuch,  
Gujarat.



No. SEIAA/GUJ/EC/5(f)/1639/2020

Date: 31 DEC 2020 BY R.P.A.D.

Amendment to Environment Clearance Order No:- SEIAA/GUJ/EC/5(f)/171/2013 dated 02/07/2013 & SEIAA/GUJ/EC/5(f)/574/2019 dated 10/04/2019 .

(Under the provision of Environmental Impact Assessment (EIA) Notification, 2006)

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification, 2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted to M/s. Aarti Industries Limited of 'Synthetic Organic Chemicals' manufacturing plant at Plot No. Z/103/H, GIDC notified industrial Estate, Dahej SEZ, Tal.Vagra, Dist. Bharuch, State: Gujarat, vide this office letter no. SEIAA/GUJ/EC/5(f)/171/2013 dated 05/07/2013 & SEIAA/GUJ/EC/5(f)/574/2019 dated 10/04/2019, is being subjected to amendment for the following change in the project.

And whereas SEIAA has granted Environment Clearance vide office order letter no. SEIAA/GUJ/EC/5(f)/171/2013 dated 05/07/2013 & SEIAA/GUJ/EC/5(f)/574/2019 dated 10/04/2019, under the provisions of the aforesaid Notification.

And whereas project proponent has applied for amendment in the environmental clearance vide their online application vide No. SIA/GJ/IND2/151995/2020 dated 10/07/2020. The project was scheduled for hearing in the SEAC meeting held on 26/10/2020.

The SEAC, Gujarat had recommended the project vide their letter dated 02/12/2020 to grant amendment in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 26/10/2020. The proposal was considered by SEIAA, Gujarat in its meeting held on 08/12/2020 at Gandhinagar. After careful consideration, Environment Clearance order dated 05/07/2013 is hereby amended as under.

1. Change in Condition No. 12, 13, 14, 15 & 16 of the environmental clearance order no. SEIAA/GUJ/EC/5(f)/171/2013 dated 05/07/2013 have been amended and shall be read as under and Extension of validity of EC granted to M/s Aarti Industries Ltd for further three years i.e 05/07/2023 with remaining condition unchanged in EC granted by SEIAA, Gujarat vide Letter No. SEIAA/GUJ/EC/5(f)/ 171 /2013 Dated: 5 July 2013.

i. Condition No. 12 shall now be read as under:

12. Unit shall not exceed fuel consumption for THF, steam boiler, furnace and stand by DG Set as mentioned below:

Sr. No.	Stack attached to	Type of Fuel	Quantity	Stack Height in meters	Air pollution control system	Parameters
1.	Boiler -I Capacity - 20 TPH	Coal	3333.3 Kg/Hr	42 (Common chimney with Boiler)	ESP	SPM SO <sub>2</sub> NO <sub>x</sub>
2.	Thermic Fluid Heater Capacity - 20 Lac Kcal/Hr	Natural Gas	187.5 Kg/Hr			





3.	D.G. Set Capacity – 1000 KVA	Diesel	270 Lit/Hour	11 Dia:220 mm	--	
4.	D.G. Set Capacity – 1000 KVA	Diesel	270 Lit/Hour	11 Dia:220 mm	--	
5.	Ethylation Furnace vent	Coal	150 Kg/Hr	42	Wet Scrubber	
6.	Boiler –II Capacity – 67 TPH	Coal	310 MT/Day	45 Dia:1400 mm	ESP+ Lime dosing	SPM SO <sub>2</sub> NO <sub>x</sub>

ii. **Condition No. 13 shall now be read as under:**

13 Unit shall provide adequate APCM with flue gas generation sources as mentioned above:

iii. **Condition No: 14, 15 & 16 shall be considered as null and void.**

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/5(7)/171/2013 dated 05/07/2013 shall remain unchanged.

With regards,  
Yours sincerely,

(Dr. K. RAMESH)  
Member Secretary



**Issued to:**

Aarti Industries Limited,  
Z/103/H,  
GIDC notified industrial Estate,  
Dahej SEZ,  
Tal.Vagra,  
Dist. Bharuch,  
Gujarat.

[I INDUSTRIES LTD,DAHEJ]								
INSTRUMENTATION DEPARTMENT								
LIST OF GAS DETECTORS								
SR NO	TAG	SERIAL NUMBER	TYPE OF INSTRUMENT	LOCATION	MAKE	MODEL	INST RANGE	CALIBRATION RANGE
1	DHJ1-ETD001	02100D3319/01	Ethylene gas detector	Hydrolysis reactor	Tritech	FL-XT	0-100% LEL	0-100% LEL
2	DHJ1-ETD002	02100D3320/01	Ethylene gas detector	Catalyst reactor bottom	Tritech	FL-XT	0-100% LEL	0-100% LEL
3	DHJ1-ETD003	02100D3150/03	Ethylene gas detector	Ethylene gas compressor	Tritech	FL-XT	0-100% LEL	0-100% LEL
4	DHJ1-ETD004	02100D3150/01	Ethylene gas detector	Buss section 2nd floor	Tritech	FL-XT	0-100% LEL	0-100% LEL
5	DHJ1-ETD005	02100N3150/02	Ethylene gas detector	Buss section 1st floor	Tritech	FL-XT	0-100% LEL	0-100% LEL
6	DHJ1-ETD006	02100D4063/01	Ethylene gas detector	Ethylene gas compressor	Tritech	FL-XT	0-100% LEL	0-100% LEL
7	DHJ1-ETD007	02100D4063/02	Ethylene gas detector	Ethylene gas compressor	Tritech	FL-XT	0-100% LEL	0-100% LEL
8	DHJ1-ETD008	02100D5844	Ethylene gas detector	2T-0205 Top Vent	Tritech	FL-XT	0-100% LEL	0-100% LEL
9	DHJ1-ETD009	D6002/01	Ethylene gas detector	Near P-2204 Reaction Pump	Tritech	FL-XT	0-100% LEL	0-100% LEL
10	DHJ1-NGD001	02100D3319/02	Natural gas detector	Boiler thermopack	Tritech	FL-XT	0-100% LEL	0-100% LEL
11	DHJ1-NGD002	02100D3320/03	Natural gas detector	Boiler thermopack	Tritech	FL-XT	0-100% LEL	0-100% LEL
12	DHJ1-NGD003	D3320/02	Natural gas detector	Flare area	Tritech	FL-XT	0-100% LEL	0-100% LEL
13	DHJ1-2GD-0203	48050D6969/01	VOC Meter	VOC Meter 1st Floor MEA	Tritech	2X-TX	0-100% LEL	0-100% LEL
14	DHJ1-2GD-0204	728/C/23	VOC Meter	OT P-1045	Tritech	2X-TX	0-100% LEL	0-100% LEL
15	DHJ1-2GD-0205	31/A/23	VOC Meter	T-1075	Tritech	2X-TX	0-100% LEL	0-100% LEL
16	DHJ1-2GD-0206	710/C/23	VOC Meter	T-1044	Tritech	2X-TX	0-100% LEL	0-100% LEL
17	DHJ1-2GD-0207	714/C/23	VOC Meter	T-1050	Tritech	2X-TX	0-100% LEL	0-100% LEL
18	DHJ1-1GD-0202	48050D6969/02	VOC Meter	VOC MeterTanker Unloading Area	Tritech	2X-TX	0-100% LEL	0-100% LEL
19	2GD-0202	D6968	Ethylene gas detector	BUSS VENT CONDENSOR	Tritech	FL-Xt	0-100 % LEL	0 TO 100 %
20	Spare	02100D7274/01	Ethylene Gas Detector/TX		Tritech	FL-XT	0-100% LEL	0-100% LEL
21	Spare	02100D7274/02	Ethylene Gas Detector/TX		Tritech	FL-XT	0-100% LEL	0-100% LEL
22	DHJ1-GMS004		Multichannel Gas Monitor	DCS control room	Tritech	TM-800	0-100% LEL	0-100% LEL
23	DHJ1-GMS001	02100D3318	Multichannel Gas Monitor	Boiler control room	Tritech	GAZCHAMP-EX	0-100% LEL	0-100% LEL
24	DHJ1-GMS002	02100D3144	Multichannel Gas Monitor	DCS control room	Tritech	GAZCHAMP-EX	0-100% LEL	0-100% LEL

SR.	GAS TYPE	LEL%	UEL%
1	ETHELENE	2.7	36
2	HYDROGEN	4	75

4550388339  
4550388339

3	NATURAL GAS(METHANE98% + ETHANE2%)	5	17
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Prepared By		Approved By	
Name:		Name:	
Sign:		Sign:	
Date:		Date:	

Cross sensitivity of Methane	1
Cross sensitivity of Ethylene	0.71
Formula	(1/0.71)*50%
Calibrated value	70.40%

# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: October - 2024**

**FOR**

**M/s. Aarti Industries Limited. (Unit – 1)  
(Neo SEZ Unit)**

**At**

**Plot No. Z/103/H, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : response@uerl.in Website : www.uerl.in

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : October-2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/10/AIL-1/A-001

Report Issue Date: 05/11/2024

Location : AAQM 1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)

Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SOx µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	01/10/2024	75	25	16.8	20.3
2	02/10/2024	65	20	18.9	23.5
3	09/10/2024	70	24	19.2	25.0
4	10/10/2024	66	19	17.5	21.2
5	16/10/2024	76	25	15.3	20.4
6	17/10/2024	72	24	15.3	18.9
7	22/10/2024	68	22	18.4	22.4
8	23/10/2024	62	22	16.5	21.8
9	28/10/2024	72	22	21.3	27.2
10	29/10/2024	78	28	19.4	23.6
Max.		76	25	19.2	25.0
Min.		62	19	15.3	18.9
98 <sup>th</sup> Percentile		75.9	25.0	19.2	24.8
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel

(Chemist)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : October-2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/10/AIL-1/A-002

Report Issue Date: 05/11/2024


Location : AAQM-2 : Near ETP Plant (Lat. N 21.682164, Long. E 72.550906)

Instrument - RDS (Sr.No. 190303U005) & FPS (Sr.No. 190202U006)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>x</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	01/10/2024	72	23	17.5	21.8
2	02/10/2024	70	25	19.4	25.3
3	09/10/2024	71	23	16.5	20.2
4	10/10/2024	69	21	18.9	25.5
5	16/10/2024	66	22	16.1	22.5
6	17/10/2024	75	28	17.2	20.6
7	22/10/2024	73	25	20.1	24.3
8	23/10/2024	68	24	18.2	22.1
9	28/10/2024	75	24	22.0	26.5
10	29/10/2024	73	25	17.5	25.2
Max.		75	28	20.1	25.5
Min.		66	21	16.1	20.2
98 <sup>th</sup> Percentile		74.7	27.6	20.0	25.5
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:

  
Nikunj D. Patel  
(Chemist)

Authorized By:

  
Jaivik S. Tandel  
(Manager - Operations)

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : October-2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/10/AIL-1/A-003

Report Issue Date: 05/11/2024

Location : AAQM-3 : Near Plant Office (Lat. N 21.681326, Long. E 72.550520)

Instrument: RDS (Sr.No. 22905-DTG-2018) & FPS (Sr.No. 112-DTG-2012)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	01/10/2024	68	24	19.3	22.6
2	02/10/2024	63	20	16.1	20.5
3	09/10/2024	65	22	18.3	21.5
4	10/10/2024	63	18	20.4	24.6
5	16/10/2024	69	20	18.2	23.3
6	17/10/2024	64	22	16.5	19.3
7	22/10/2024	66	20	17.2	21.1
8	23/10/2024	65	22	22.3	26.2
9	28/10/2024	78	28	18.4	25.5
10	29/10/2024	70	23	15.8	21.4
Max.		69	24	22.3	26.2
Min.		63	18	16.1	19.3
98 <sup>th</sup> Percentile		68.9	23.7	22.0	26.0
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). NAAQMS: National Ambient Air Quality Monitoring Standard.3) RDS: Respirable Dust Sampler & 4) FPS: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel

(Chemist)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)



# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: November - 2024**

**FOR**

**M/s. Aarti Industries Limited. (Unit – 1)  
(Neo SEZ Unit)**

**At**

**Plot No. Z/103/H, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : November-2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/11/AIL-1/A-001

Report Issue Date: 05/12/2024

Location : AAQM 1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)

Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>x</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	05/11/2024	78	26	17.7	23.4
2	06/11/2024	72	23	15.8	19.6
3	12/11/2024	82	28	16.7	22.3
4	13/11/2024	74	24	18.1	21.5
5	20/11/2024	74	23	16.4	22.5
6	21/11/2024	69	21	15.7	21.6
7	27/11/2024	79	25	18.1	23.5
8	28/11/2024	71	22	17.5	20.4
Max.		82	28	18.1	23.5
Min.		69	21	15.7	19.6
98 <sup>th</sup> Percentile		81.6	27.7	18.1	23.5
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel

(Chemist)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : November-2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/11/AIL-1/A-002

Report Issue Date: 05/12/2024


Location : AAQM-2 : Near ETP Plant (Lat. N 21.682164, Long. E 72.550906)

Instrument - RDS (Sr.No. 190303U005) & FPS (Sr.No. 190202U006)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>x</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	05/11/2024	72	23	20.2	26.4
2	06/11/2024	76	25	17.5	21.8
3	12/11/2024	65	20	15.4	19.7
4	13/11/2024	68	22	18.9	22.5
5	20/11/2024	75	24	18.5	21.7
6	21/11/2024	66	21	20.8	24.3
7	27/11/2024	74	26	22.6	26.3
8	28/11/2024	70	23	19.1	23.6
Max.		76	26	22.6	26.4
Min.		65	20	15.4	19.7
98 <sup>th</sup> Percentile		75.9	25.9	22.3	26.4
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:

  
Nikunj D. Patel  
(Chemist)

Authorized By:

  
Jaivik S. Tandel  
(Manager - Operations)

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : November-2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/11/AIL-1/A-003

Report Issue Date: 05/12/2024

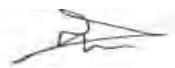
Location : AAQM-3 : Near Plant Office (Lat. N 21.681326, Long. E 72.550520)

Instrument: RDS (Sr.No. 22905-DTG-2018) & FPS (Sr.No. 112-DTG-2012)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	05/11/2024	74	26	22.6	26.3
2	06/11/2024	70	23	19.1	23.6
3	12/11/2024	72	23	20.2	26.4
4	13/11/2024	76	25	17.5	21.8
5	20/11/2024	65	20	15.4	19.7
6	21/11/2024	62	16	18.3	22.5
7	27/11/2024	66	24	16.3	19.2
8	28/11/2024	70	26	14.8	21.7
Max.		76	26	22.6	26.4
Min.		62	16	14.8	19.2
98 <sup>th</sup> Percentile		75.7	26.0	22.3	26.4
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel

(Chemist)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)

# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: December - 2024**

**FOR**

**M/s. Aarti Industries Limited. (Unit – 1)  
(Neo SEZ Unit)**

**At**

**Plot No. Z/103/H, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

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Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : December-2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/12/AIL-1/A-001

Report Issue Date: 02/01/2025

Location : AAQM 1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)

Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>x</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	03/12/2024	65	22	14.7	20.8
2	04/12/2024	63	19	13.1	18.5
3	11/12/2024	66	24	12.8	17.5
4	12/12/2024	61	22	14.2	20.2
5	19/12/2024	70	21	15.3	19.3
6	20/12/2024	74	23	14.1	20.3
7	25/12/2024	68	19	12.1	15.6
8	26/12/2024	69	18	13.6	18.2
9	30/12/2024	65	18	12.2	16.5
10	31/12/2024	58	20	15.5	20.4
Max.		74	24	15.5	20.8
Min.		58	18	12.1	15.6
98 <sup>th</sup> Percentile		73.3	23.8	15.5	20.7
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel

(Chemist)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)

## Ambient Air Quality Monitoring Data

**For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)**

**Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.**

**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : December-2024

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/24/12/AIL-1/A-002**

**Report Issue Date: 02/01/2025**


**Location : AAQM-2 : Near ETP Plant (Lat. N 21.682164, Long. E 72.550906)**

**Instrument - RDS (Sr.No. 190303U005) & FPS (Sr.No. 190202U006)**


Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SOx µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	03/12/2024	68	24	16.6	21.4
2	04/12/2024	65	20	15.2	20.1
3	11/12/2024	72	22	13.8	17.5
4	12/12/2024	67	20	16.1	22.4
5	19/12/2024	74	26	14.2	18.8
6	20/12/2024	66	19	12.2	16.8
7	25/12/2024	71	22	13.4	17.2
8	26/12/2024	62	22	16.0	19.7
9	30/12/2024	70	23	12.9	17.0
10	31/12/2024	67	18	14.6	18.2
Max.		74	26	16.6	22.4
Min.		62	18	12.2	16.8
98 <sup>th</sup> Percentile		73.6	25.6	16.5	22.2
Permissible Limit (As Per NAAQMS)		100	60	80	80

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:

  
Nikunj D. Patel  
(Chemist)

Authorized By:

  
Jaivik S. Tandel  
(Manager - Operations)

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : December-2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/12/AIL-1/A-003

Report Issue Date: 02/01/2025

Location : AAQM-3 : Near Plant Office (Lat. N 21.681326, Long. E 72.550520)

Instrument: RDS (Sr.No. 22905-DTG-2018) & FPS (Sr.No. 112-DTG-2012)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	03/12/2024	75	26	12.5	16.6
2	04/12/2024	59	18	14.8	21.5
3	11/12/2024	64	20	15.8	22.1
4	12/12/2024	62	18	13.3	19.5
5	19/12/2024	73	21	12.1	16.8
6	20/12/2024	68	20	14.0	18.9
7	25/12/2024	75	26	12.8	18.0
8	26/12/2024	65	20	15.2	20.5
9	30/12/2024	67	19	13.2	17.2
10	31/12/2024	70	24	15.9	21.5
Max.		75	26	15.9	22.1
Min.		59	18	12.1	16.6
98 <sup>th</sup> Percentile		75.0	26.0	15.9	22.0
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel

(Chemist)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)



# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: January - 2025**

**FOR**

**M/s. Aarti Industries Limited. (Unit – 1)  
(Neo SEZ Unit)**

**At**

**Plot No. Z/103/H, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



Plot No.51, Vibrant Business Park,  
NH No. 48, GIDC, Vapi – 396 195.  
Dist-Valsad (Gujarat), India.  
Phone : +91 260 2433966 / 2425610  
Email : response@uerl.in Website : www.uerl.in

MoEF&CC Environmental Laboratory under  
EPA, 1986 as 04.11.2024 to 18.10.2027

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : January-2025

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/25/01/AIL-1/A-001

Report Issue Date: 03/02/2025

Location : AAQM 1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)

Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>x</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	07/01/2025	62	23	16.6	21.6
2	08/01/2025	64	20	19.4	23.1
3	16/01/2025	67	19	18.0	20.5
4	17/01/2025	72	25	16.1	19.6
5	21/01/2025	58	23	20.3	22.4
6	22/01/2025	73	26	14.7	24.2
7	28/01/2025	61	21	15.6	20.9
8	29/01/2025	59	24	17.0	25.6
Max.		73	26	20.3	25.6
Min.		58	19	14.7	19.6
98 <sup>th</sup> Percentile		72.9	25.9	20.2	25.4
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel

(Chemist)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : January-2025

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/25/01/AIL-1/A-002

Report Issue Date: 03/02/2025


Location : AAQM-2 : Near ETP Plant (Lat. N 21.682164, Long. E 72.550906)

Instrument - RDS (Sr.No. 190303U005) & FPS (Sr.No. 190202U006)


Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>x</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	07/01/2025	65	20	13.7	19.6
2	08/01/2025	71	23	16.1	22.4
3	16/01/2025	69	18	18.4	21.6
4	17/01/2025	66	21	15.6	20.5
5	21/01/2025	62	17	19.4	18.6
6	22/01/2025	70	19	17.0	24.3
7	28/01/2025	65	22	16.6	21.3
8	29/01/2025	67	20	17.5	20.7
Max.		71	23	19.4	24.3
Min.		62	17	13.7	18.6
98 <sup>th</sup> Percentile		70.9	22.9	19.3	24.0
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:

  
Nikunj D. Patel  
(Chemist)

Authorized By:

  
Jaivik S. Tandel  
(Manager - Operations)

## Ambient Air Quality Monitoring Data

**For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)**

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : January-2025

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/25/01/AIL-1/A-003**

**Report Issue Date: 03/02/2025**

**Location : AAQM-3 : Near Plant Office (Lat. N 21.681326, Long. E 72.550520)**

**Instrument: RDS (Sr.No. 22905-DTG-2018) & FPS (Sr.No. 112-DTG-2012)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	07/01/2025	63	20	14.2	16.3
2	08/01/2025	67	18	15.1	17.5
3	16/01/2025	56	15	12.3	20.7
4	17/01/2025	62	19	16.6	18.6
5	21/01/2025	58	22	15.1	21.2
6	22/01/2025	61	21	14.7	15.7
7	28/01/2025	64	19	17.0	17.6
8	29/01/2025	65	18	15.6	19.5
Max.		67	22	17.0	21.2
Min.		56	15	12.3	15.7
98 <sup>th</sup> Percentile		66.7	21.9	17.0	21.1
Permissible Limit (As Per NAAQMS)		100	60	80	80

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel

(Chemist)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)

# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: February - 2025**

**FOR**

**M/s. Aarti Industries Limited.  
(NEO SEZ Unit)**

**At**

**Plot No. Z/103/H, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



Plot No.51, Vibrant Business Park,  
NH No.48, GIDC, Vapi-396195  
Dist-Valsad (Gujarat), India  
Phone + 91 260 2433966/2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

## Ambient Air Quality Monitoring Data

**For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)**

**Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.**

**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : February-2025

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/25/02/AIL-1/A-001**

**Report Issue Date: 03/03/2025**

**Location : AAQM-1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)**

**Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>x</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	04/02/2025	75	24	16.6	21.2
2	05/02/2025	80	26	18.2	23.5
3	11/02/2025	82	25	20.4	25.6
4	12/02/2025	78	24	19.1	24.8
5	20/02/2025	74	23	22.3	27.4
6	21/02/2025	84	26	17.5	22.6
7	27/02/2025	79	23	21.4	26.2
8	28/02/2025	76	22	23.8	28.5
Max.		84	26	23.8	28.5
Min.		74	22	16.6	21.2
98 <sup>th</sup> Percentile		83.7	26.0	23.6	28.3
Permissible Limit (As Per NAAQMS)		100	60	80	80

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

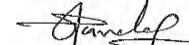
Checked By:



Ankur R. Patel

(Supervisor)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)

## Ambient Air Quality Monitoring Data

**For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)**

**Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.**

**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : February-2025

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/25/02/AIL-1/A-002**

**Report Issue Date: 03/03/2025**

**Location : AAQM-2 : Near ETP Plant (Lat. N 21.682164, Long. E 72.550906)**

**Instrument - RDS (Sr.No. 190303U005) & FPS (Sr.No. 190202U006)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>x</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	04/02/2025	72	22	18.2	23.6
2	05/02/2025	78	24	16.5	21.4
3	11/02/2025	84	26	21.6	26.7
4	12/02/2025	68	21	20.3	25.8
5	20/02/2025	76	25	19.5	24.2
6	21/02/2025	78	23	18.9	24.8
7	27/02/2025	74	24	22.5	26.6
8	28/02/2025	70	20	24.5	28.2
Max.		84	26	24.5	28.2
Min.		68	20	16.5	21.4
98 <sup>th</sup> Percentile		83.2	25.9	24.2	28.0
Permissible Limit (As Per NAAQMS)		100	60	80	80

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

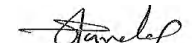
Checked By:



Ankur R. Patel

(Supervisor)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)

## Ambient Air Quality Monitoring Data

**For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)**

**Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.**

**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : February-2025

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/25/02/AIL-1/A-003**

**Report Issue Date: 03/03/2025**

**Location : AAQM-3 : Near Plant Office (Lat. N 21.681326, Long. E 72.550520)**

**Instrument: RDS (Sr.No. 22905-DTG-2018) & FPS (Sr.No. 112-DTG-2012)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	04/02/2025	70	24	12.8	16.5
2	05/02/2025	64	21	14.3	21.4
3	11/02/2025	67	23	16.3	20.8
4	12/02/2025	62	20	15.6	19.3
5	20/02/2025	71	25	13.2	16.3
6	21/02/2025	74	27	17.1	20.4
7	27/02/2025	68	24	15.1	21.4
8	28/02/2025	65	22	14.8	18.3
Max.		74	27	17.1	21.4
Min.		62	20	12.8	16.3
98 <sup>th</sup> Percentile		73.6	26.7	17.0	21.4
Permissible Limit (As Per NAAQMS)		100	60	80	80

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Ankur R. Patel

(Supervisor)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)



# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: March - 2025**

**FOR**

**M/s. Aarti Industries Limited.  
(NEO SEZ Unit)**

**At**

**Plot No. Z/103/H, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



Plot No.51, Vibrant Business Park,  
NH No.48, GIDC, Vapi-396195  
Dist-Valsad (Gujarat), India  
Phone + 91 260 2433966/2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : March-2025

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/25/03/AIL-1/A-001

Report Issue Date: 03/04/2025

Location : AAQM-1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)

Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>x</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	04/03/2025	82	26	18.5	24.5
2	05/03/2025	75	24	17.3	27.6
3	11/03/2025	78	22	20.3	22.4
4	12/03/2025	84	25	17.6	26.3
5	18/03/2025	80	20	21.7	21.6
6	19/03/2025	76	21	19.3	23.8
7	27/03/2025	83	26	22.5	25.6
8	28/03/2025	81	25	21.6	28.3
Max.		84	26	22.5	28.3
Min.		75	20	17.3	21.6
98 <sup>th</sup> Percentile		83.9	26.0	22.4	28.2
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

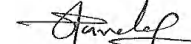
Checked By:



Ankur R. Patel

(Supervisor)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)

## Ambient Air Quality Monitoring Data

**For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)**

**Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.**

**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : March-2025

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/25/03/AIL-1/A-002**

**Report Issue Date: 03/04/2025**

**Location : AAQM-2 : Near ETP Plant (Lat. N 21.682164, Long. E 72.550906)**

**Instrument - RDS (Sr.No. 190303U005) & FPS (Sr.No. 190202U006)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>x</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	04/03/2025	76	25	20.6	25.6
2	05/03/2025	72	26	19.5	24.4
3	11/03/2025	80	24	16.7	21.8
4	12/03/2025	76	20	18.3	23.7
5	18/03/2025	75	26	22.8	26.8
6	19/03/2025	69	23	21.5	28.5
7	27/03/2025	72	22	19.8	25.4
8	28/03/2025	74	21	20.5	24.2
Max.		80	26	22.8	28.5
Min.		69	20	16.7	21.8
98 <sup>th</sup> Percentile		79.4	26.0	22.6	28.3
Permissible Limit (As Per NAAQMS)		100	60	80	80

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

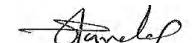
Checked By:



Ankur R. Patel

(Supervisor)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)

## Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.

By – UniStar Environment and Research Labs Pvt. Ltd.

Month : March-2025

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/25/03/AIL-1/A-003

Report Issue Date: 03/04/2025

Location : AAQM-3 : Near Plant Office (Lat. N 21.681326, Long. E 72.550520)

Instrument: RDS (Sr.No. 22905-DTG-2018) & FPS (Sr.No. 112-DTG-2012)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	04/03/2025	73	20	14.5	15.3
2	05/03/2025	68	24	13.8	16.7
3	11/03/2025	71	26	15.8	16.5
4	12/03/2025	74	23	16.7	21.3
5	18/03/2025	68	24	15.5	19.4
6	19/03/2025	65	26	16.3	17.8
7	27/03/2025	76	27	17.5	20.2
8	28/03/2025	73	25	16.7	22.4
Max.		76	27	17.5	22.4
Min.		65	20	13.8	15.3
98 <sup>th</sup> Percentile		75.7	26.9	17.4	22.2
Permissible Limit (As Per NAAQMS)		100	60	80	80

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Ankur R. Patel

(Supervisor)

Authorized By:



Jaivik S. Tandel

(Manager - Operations)



Annexure-I



ગુજરાત ગુજરાત GUJARAT

**NOTARY**

AU 189555

**NOTARY**

904-12-15

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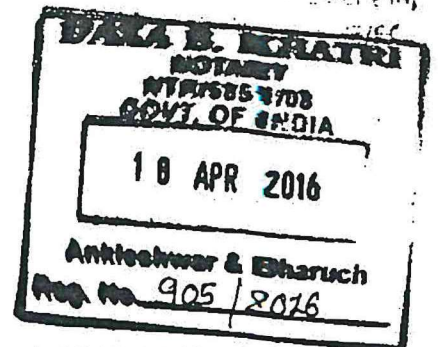
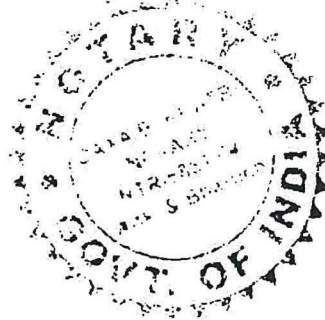
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**UNDERTAKING**

I Mr. Sandip Parekh DGM-Production (Division Head) of M/s. Anushakti Specialties Limited Liability Partnership having their Admin office at 2<sup>nd</sup> floor, Udhog Kshetra, Mulund Goregaon Link Road, Mulund Mumbai - 400 080. and having Factory at plot no. Z/103/H, Dahej SEZ II, Tal. Vagra, Dist. Bharuch, does hereby declare and state as under:

I undertake that the company has no outlet in GIDC underground Drain.

What is stated herein is true to the best of my knowledge and the same I believe to be true.

For, Anushakti Specialties L.L.P.

Sandip Parekh-DGM -Production  
(Division Head)

Date : 18/04/2016

**JAGA B. KHATRI**

Notary (Govt. of India)  
Ankleshwar & Bharuch  
Block No 4 Room No.39  
Gujarat Housing Board  
East Talab, Ankleshwar

The undersigned does not take any  
Responsibility for The Contents  
(or Intense or the Result) where it  
Produced of the Document.  
neponant/ Identifier/ Witness  
before me Only

# 5.0 SOIL ANALYSIS REPORT



**Period: December - 2024**

**FOR**

**M/s. Aarti Industries Limited. (Unit – 1)  
(Neo SEZ Unit)**

**At**

**Plot No. Z/103/H, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : response@uerl.in Website : www.uerl.in

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company



QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

### TEST REPORT

ULR No.	--	Report No.	URC/24/12/L-1094
Name & Address of Customer	M/s. AARTI INDUSTRIES LTD. (UNIT-I NEO) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT	Date of Report	26/12/2024
		Customer's Ref.	--
Sample Details	Soil Sample	Location	Garden Area
Sample Qty.	1 kg.	Appearance	Brown Colour
Sampling Date	19/12/2024	Sample Received Date	20/12/2024
Test Started Date	20/12/2024	Test Completion Date	25/12/2024
Sampled By	Client.	Sampling Method	--
UERL Lab ID. No.	24/12/L-1094		

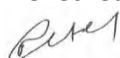
#### TEST RESULTS:

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	IS: 2720 (Part 26):1987 (RA 2019)	--	9.03
2.	Moisture Content	Lab SOP No. UERL/CHM/LTM/86	%	5.11
3.	Electrical Conductivity	IS: 14767 :2000RA.2016	µs/cm	103.6
4.	Potassium	Lab SOP No. UERL/CHM/LTM/84	mg/kg	198.0
5.	Sodium	Lab SOP No. UERL/CHM/LTM/89	mg/kg	399.0
6.	Total Kjeldahl Nitrogen as N	IS: 14684 :1999	mg/kg	79.6
7.	Cation Exchange Capacity	Lab SOP No. UERL/CHM/LTM/79	meq/100g	27.1
8.	Water Holding Capacity	Lab SOP No. UERL/CHM/SOP/150	ml/100 gm	50
9.	Texture Class	Lab SOP No. UERL/CHM/LTM/108	--	Clay Loam
10.	Available Phosphorus	Lab SOP No. UERL/CHM/SOP/151	mg/kg	648.2
11.	Chloride	Lab SOP No. UERL/CHM/LTM/90	mg/kg	396.7
12.	Sulphate	Lab SOP No. UERL/CHM/SOP/152	mg/kg	19.8
13.	Sodium Absorption Ratio (SAR)	Lab SOP No. ERL/CHM/LTM/85	--	4.05
14.	Available Nitrogen	Lab SOP No. UERL/CHM/LTM/80	mg/kg	58.1

**Note:** BDL= Below Detection Limit, MDL = Minimum Detection Limit,

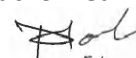
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nilesh C. Patel**  
(Sr. Chemist)

Authorized By:



**Nitin B. Tandel**  
(Technical Manager)

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

### TEST REPORT

ULR No.	--	Report No.	URC/24/12/L-1094
Name & Address of Customer	M/s. AARTI INDUSTRIES LTD. (UNIT-I NEO) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT	Date of Report	26/12/2024
		Customer's Ref.	--
Sample Details	Soil Sample	Location	Garden Area
Sample Qty.	1 kg.	Appearance	Brown Colour
Sampling Date	19/12/2024	Sample Received Date	20/12/2024
Test Started Date	20/12/2024	Test Completion Date	25/12/2024
Sampled By	Client.	Sampling Method	--
UERL Lab ID. No.	24/12/L-1094		

#### TEST RESULTS:

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	Chemical Oxygen Demand (COD)	APHA 23 <sup>rd</sup> Ed.,2017,5220-B	mg/kg	20971
2.	Colour	--	--	Brown
3.	TOC	--	mg/kg	7864.1
4.	Pesticides	--	µg/kg	Absent
5.	Ammonia	By ISE Meter	mg/kg	N.D.
Particle Size Distribution:				
6.	Sand	Lab SOP No. UERL/CHM/LTM/108	%	14.0
	Silt		%	15.8
	Clay		%	70.2
Note: N.D.: Not Detectable.				

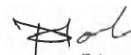
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nilesh C. Patel**  
(Sr. Chemist)

Authorized By:



**Nitin B. Tandel**  
(Technical Manager)



## Annexure-5

List of minimum equipments for OHC (As per OH Element)						Working Condition	
Sr No	Equipment	Required	Acutual	Gap	Remark	Mar 2024	
1	ECG Machine (3 Channel)	1	1			Working	
2	AED Machine	1	1			Working	98
3	Laryngoscope	2	2			Working	98/98
4	Manikins for training	1	1			Working	
5	Manual BP Instrument	2	2			Working	0/98
6	Sphygmomanometer - LED	2	2			Working	0/98
7	Sphygmomanometer - Digital	2	2			Working	
8	Thermometer (Digital)	4	4			Working	
9	Thermometer - IR	2	2			Working	
10	Pulse Oxymeter	4	8			Working	
11	Stethoscope	2	2			Working	
12	Weight Machine (Digital)	2	2			Working	
13	Hight Meter	2	2			Working	
14	Glucometer	2	2			Working	
15	Glucometer Lancet	100	100			YES	
16	Glucometer Strip	25	25			YES	
17	Nebulizer	2	1	1	not required		
18	Suction Machine	1	1			Working	
19	Suction Catheter	2	2			Working	
20	ECG Trolley/Crash Cart	1	1				
21	Peak Flow Meter	2	2			Working	
22	Ambu Bag	4	4			YES	
23	Autoclave Machine	1	1			Working	
24	Electrical sterilizer	1	1				
25	Nasal Airway	2	2			YES	
26	Laryngeal mask airway	2	2			YES	
27	Endo Tracheal Tube	2	2			YES	
28	Hospital Bed	2	2			YES	
29	IV Stand	2	2			YES	
30	Dressing Trolley	1	1			YES	
31	Slide Board	1	1			YES	

List of minimum equipments for OHC (As per OH Element)						Working Condition	
Sr No	Equipment	Required	Acutual	Gap	Remark	Mar 2024	
32	Spot Lamp	1	1				
33	Wheel Chair	1	1			YES	
34	Portable Oxygen Cylinder	4	15			Working	
35	Oxygen Cylinder mask	5	15			YES	
36	Regulater for oxygen cylinder	4	15			Working	
37	Key for Oxygen Cylinder	2	3			Working	
38	Humidifier Bottle for Oxygen Cylinder	4	15			YES	
39	Oxygen Cylinder Trolley	4	4			YES	
40	Vision Box Remote Operated	1	1			Working	
41	Vision Chart - Near/ Distant/ Color	1	1			Working	
42	Portable Stadiometer	1	1			Working	
43	Ishihara Color Vision Book	1	1			YES	
44	X-Ray View Box	1	2			Working	
45	Foldable STRECHER	2	2			YES	
46	Examination Stool	4	4			YES	
47	Spine Board	1	1			YES	
48	Patient Dress	10	10			YES	
49	Refrigerator	1	1			Working	
50	Water Dispenser	1	1			Working	
51	Needle Cutter - Electric/manual	2	1	1	not required	Working	
52	Examination Torch	2	2			Working	
53	Dressing Tray (15" * 12")	1	1			YES	
54	Dressing Tray (12" * 8")	1	1			YES	
55	Dressing Drum (9" * 9")	2	1	1	not required	YES	
56	Kidney Tray (10")	2	2			YES	
57	Kidney Tray (8")	2	2			YES	
58	Chital Forcep	2	2			YES	
59	Curved Artery Forcep	2	2			YES	
60	Straight Artery Forcep	2	2			YES	
61	Tooth Forcep	2	2			YES	
62	Non Tooth Forcep	2	2			YES	

List of minimum equipments for OHC (As per OH Element)						Working Condition	
Sr No	Equipment	Required	Acutual	Gap	Remark	Mar 2024	
63	Magill Forcep	2	2			YES	
64	Needle Holder	2	2			YES	
65	Scalpel Holder	2	2			YES	
66	Surgical Scissor	2	2			YES	
67	SCISSOR	4	4			YES	
68	Tongue Depressor	2	2			YES	
69	Sponge Holder Forcep	2	2			YES	
70	Suture Removal Scissor	2	2			YES	
71	Urine Pot	2	2			YES	
72	Bed Pan	2	2			YES	
73	Eye Wash Bottle	4	5			YES	
74	Measure Tape	2	2			YES	
75	Splint (SA+ LA+SL+LL)	20	20			YES	
76	Patellar Hammer	2	2			YES	
77	Hard Neck Collar	4	4			YES	
78	ENT Set	1	1			YES	
79	Sutures (Ehilon 2-0)	2	2			YES	
80	Sutures (Ehilon 3-0)	2	2			YES	
81	Foleys Catheter	1	1			YES	
82	Diphoterene Kit	1	1			YES	
83	Electric Kettle	1	NA		Not required	Working	
84	Steel tumblers	4	4			YES	
85	Steel Spoon	4	4			YES	
86	Nasogastric Tube	2	2			YES	
87	Nebulizer Mask	2	2			YES	
88	Examination couch with storage	1	1			YES	
89	Portable/ Fixed Screen	1	1			YES	
90	Double Bed Sheet	10	4			YES	
91	Pillow Cover	10	4			YES	
92	Pillow	4	4			YES	
93	Hand Towel	5	5			YES	

List of minimum equipments for OHC (As per OH Element)						Working Condition	
Sr No	Equipment	Required	Acutual	Gap	Remark	Mar 2024	
94	Nepkin	5	2			YES	
95	Blanket	2	4			YES	
96	Appron	4	4			YES	
97	Formalin Camber	1	1			YES	
98	Bed Side Locker	1	1			YES	



## Safety Report

[Prepared as required by Schedule 8, Rule 10 (1) of MSIHC Rule, 1989 & Schedule 8, Rule 68-J (9)(L) of the Gujarat Factories Rules, 1963]

**M/s. Aarti Industries Ltd. (Neo Division)**

Plot No: Z/103/H, Dahej SEZ-II, Tal Vagra, Dist. Bharuch-392130

**January 2025**

**Office:**

507, Titanium Business  
Hub, beside white temple,  
Althan Bhimrad road, PO:  
Bhimrad, Surat,  
Gujarat - 395 017

M- +91-8980011624  
+91-8155000864

E- Mail :  
[yagnesh@naiknassociates.com](mailto:yagnesh@naiknassociates.com)

web:  
[www.naiknassociates.com](http://www.naiknassociates.com)  
[www.myonlinebbs.com](http://www.myonlinebbs.com)

### (F) Sprinkler system:

Company has installed sprinkler system in ethylene compressor (in both process plant), Transformer, Coal Yard, Ware-House, Pig Receiver, BUSS Reactor (in both process plant), Tanker loading/unloading area, Propylene Storage area (On Tanker unloading area, Compressor area and on tank)

### (G) Fire protection:

List of fire protection equipment			
Sr. No.	Description	Qty	Unit
1	Fire Extinguisher ABC, 1 Kg	07	Nos
2	Fire Extinguisher ABC, 4 Kg	77	Nos
3	Fire Extinguisher ABC, 6 Kg	35	Nos
4	Fire Extinguisher ABC, 9 Kg	38	Nos
5	Fire Extinguisher CO <sub>2</sub> , 4.5 Kg	68	Nos
6	Fire Extinguisher CO <sub>2</sub> , 9 Kg	31	Nos
7	Fire Extinguisher CO <sub>2</sub> 22.5 kg	03	Nos
8	Fire Extinguisher DCP, 50 kg	06	Nos
9	Form type Fire Extinguisher 50 Lit	03	Nos
10	Form type Fire Extinguisher 09 Lit	03	Nos
10	Fire Extinguisher D class, 4 kg	05	Nos
11	Fire Hose Box	98	Nos
12	Safety Shower as per IS:10592	37	Nos
13	Foam Trolley 200 litre Without Foam	02	Nos
15	3 Nos. Sand Bucket with Stand & Hood	03	Nos
16	4 Nos. Sand Bucket with Stand & Hood	27	Nos
17	Water Cum Foam Monitor	15	Nos
18	Breathing Air Line System with Mounting Box	26	Nos
19	Wind Shock Indicator Stand	04	Nos
20	Vertical lifeline for fall protection	35	Nos
21	Horizontal lifeline for fall protection	09	Nos

### Hydrant System

Detail Hydrant System drawing, pipeline layout, hydrant post location along with isolation valve position displayed in all ECC as well as fire station and plant control rooms

#### A. No. of Fire pump, type & capacity, Fire water reservoir

Pump House	Jockey pump	Electrical Pump	DG Pump	Fire water reservoir
Firefighting pump	40 m <sup>3</sup> /hr 02 Nos.	273 m <sup>3</sup> /hr 02 Nos.	410 m <sup>3</sup> /hr 01 No.	2425 M <sup>3</sup>
			273 m <sup>3</sup> /hr 01 No.	
Total	02 Nos	02 Nos	02 Nos	2425 M <sup>3</sup>

Fire pumps operation/status indication panel provided at on automatic working condition with visual alarm

Single hydrant points	68
Double hydrant points	02
Riser fire escape hydrant points	28
Fixed monitor	15
Hose boxes	99
Hoses pipes: 15 Mtr.	180
Hoses pipes: 7.5 Mtr.	8
short Branch	35 Nos
Branch Pipes (Triple purpose)	63 Nos
Foam making branch pipes	02 Nos
Foam compound	2500 Ltr
Foam making branch (FB-5X)	02 Nos
Jumbo curtain	03 Nos
Dividing breeching	01 Nos
Fog nozzle branch	01 Nos
Revolving branch	02 Nos
Spray nozzle	01 Nos
London pattern hand control branch	1 Nos
Portable water monitor	1 Nos
Piercing nozzle for coal fire	2 Nos

### Fire Tender

Fire tender is available with a water reservoir of 5000 liters and its Pump capacity is 4000 LPM. Water capacity of 2425 KL are available as static form and distributed round the factory with due regard to the potential fire risks in the factory.

Armored suction house of 9 meters length, with wrenches	1 No.
Metal suction strainers	1 No.
Basket strainer	1 No.
Two-way suction collection head	1 No.
Suction adapter	1 No.
Unlined or rubber lined 70mm delivery hose of 25 meters length complete with quick-release couplings	10 Nos.
Dividing breaching-piece	1 No.
Branch-piece with 15 mm nozzles	2 Nos.
Diffuser nozzle	1 No.
Standpipe with blank cap	1 No.
Hydrant key	1 No.
Collapsible canvas buckets	4 Nos.
Fire hook (prevent or) with cutting edge	1 No.
25 mm manila rope of 30 meters length	1 No.
Extension ladder of 9 meters length (where necessary)	1 No.
Heavy Axe	1 No.
Spade	1 No.
Pick Axe	1 No.
Crowbar	1 No.
Saw	1 No.
Hurricane lamp 1 Electric torch	1 No.
Pair of rubber gloves	1 No.
DCP Fire Extinguisher 75 kg	2 Nos.
CO <sub>2</sub> Fire Extinguisher 22.5 kg	1 No.
Hurricane lamp	1 No.
Electric torch	1 No.
Pair rubber gloves	1 No.

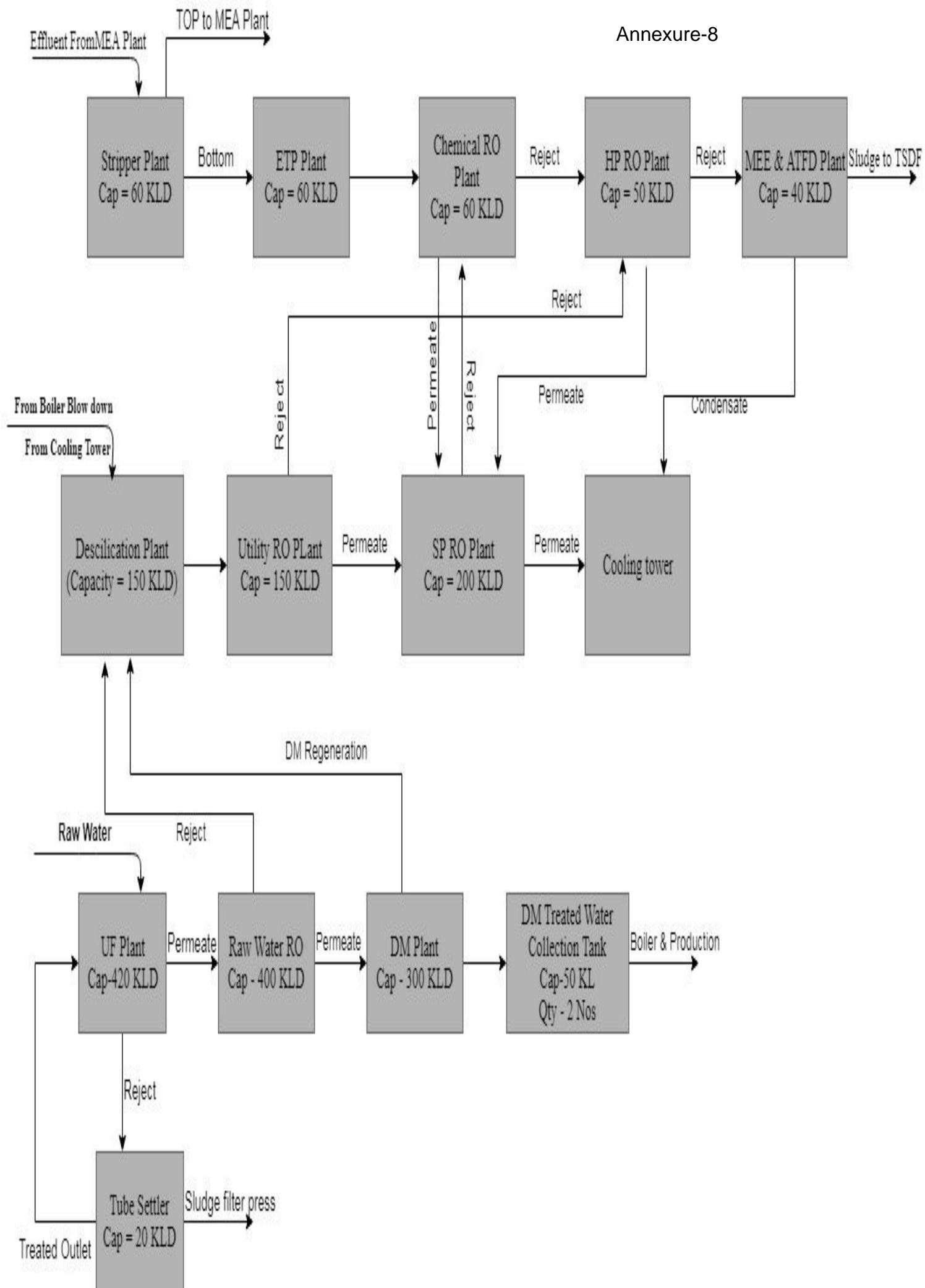


**Gas Detection System:**

Sr. No.	Tag No.	Make	Model	Service	Location	Range
1	DHJ1-ETD001	Tritech	FL-XT	Ethylene gas detector	Hydrolysis reactor	0-100% LEL
2	DHJ1-ETD002	Tritech	FL-XT	Ethylene gas detector	Catalyst reactor bottom	0-100% LEL
3	DHJ1-ETD003	Tritech	FL-XT	Ethylene gas detector	Ethylene gas compressor	0-100% LEL
4	DHJ1-ETD004	Tritech	FL-XT	Ethylene gas detector	Buss section 2nd floor	0-100% LEL
5	DHJ1-ETD005	Tritech	FL-XT	Ethylene gas detector	Buss section 1st floor	0-100% LEL
6	DHJ1-ETD006	Tritech	FL-XT	Ethylene gas detector	Ethylene gas compressor	0-100% LEL
7	DHJ1-ETD007	Tritech	FL-XT	Ethylene gas detector	Ethylene gas compressor	0-100% LEL
8	DHJ1-ETD008	Tritech	FL-XT	Ethylene gas detector	2T-0205 Top Vent	0-100% LEL
9	DHJ1-ETD009	Tritech	FL-XT	Ethylene gas detector	Near P-2204 Reaction Pump	0-100% LEL
10	DHJ1-ETD010	Tritech	FL-XT	Ethylene gas detector	Pig Receiver	0-100% LEL
11	DHJ1-NGD001	Tritech	FL-XT	Natural gas detector	Boiler thermopack	0-100% LEL
12	DHJ1-NGD002	Tritech	FL-XT	Natural gas detector	Boiler thermopack	0-100% LEL
13	DHJ1-NGD003	Tritech	FL-XT	Natural gas detector	Flare area	0-100% LEL
14	DHJ1-2GD-0203	Tritech	2X-TX	VOC Meter	VOC Meter 1st Floor MEA	0-100% LEL
15	DHJ1-2GD-0204	Tritech	2X-TX	VOC Meter	OT P-1045	0-100% LEL
16	DHJ1-2GD-0205	Tritech	2X-TX	VOC Meter	T-1075	0-100% LEL
17	DHJ1-2GD-0206	Tritech	2X-TX	VOC Meter	T-1044	0-100% LEL
18	DHJ1-2GD-0207	Tritech	2X-TX	VOC Meter	T-1050	0-100% LEL
19	DHJ1-1GD-0202	Tritech	2X-TX	VOC Meter	VOC Meter Tanker Unloading Area	0-100% LEL
20	2GD-0202	Tritech	FL-Xt	Ethylene gas detector	BUSS VENT CONDENSER	0 TO 100 %
21	Spare	Tritech	FL-XT	Ethylene Gas Detector / TX	SS praetor Spa Spare	0-100% LEL
22	Spare	Tritech	FL-XT	Ethylene Gas Detector / TX	SS paret Store	0-100% LEL
23	DHJ1-GMS004	Tritech	Multichannel Gas Monitor	---	TM-800	0-100% LEL
24	DHJ1-GMS001	Tritech	Multichannel Gas Monitor	---	GAZCHAMP-EX	0-100% LEL
25	DHJ1-GMS002	Tritech	Multichannel Gas Monitor	---	GAZCHAMP-EX	0-100% LEL
26	4AT0101	TRITECH	LUMI-FL	NG	TFH	0-100 %LEL NG
27	4AT0102	TRITECH	LUMI-FL	ETHYLENE	COOLINGTOWER	0-100 %LEL ETHYLENE
28	6AT0101	TRITECH	LUMI-FL	ETHYLENE	MEA Plant -GF	0-100 %LEL ETHYLENE
29	6AT0102	TRITECH	LUMI-FL	NG	FLARE SYSTEM	0-100 %LEL

Sr. No.	Tag No.	Make	Model	Service	Location	Range
						NG
30	6AT0103	TRITECH	LUMI-FL	H2	MEA Plant - 4thF	0-100 %LEL H2
31	6AT0107	TRITECH	LUMI-FL	OT- VAPOUR	MEA Plant -GF	0-100 %LEL COMBUSTIB LE GAS
32	6AT0106	TRITECH	LUMI-FL	ETHYLENE	MEA Plant -SF	0-100 %LEL ETHYLENE
33	6AT0104	TRITECH	LUMI-FL	ETHYLENE	MEA Plant -TF	0-100 %LEL ETHYLENE
34	6AT0105	TRITECH	LUMI-FL	ETHYLENE	MEA Plant -TF	0-100 %LEL ETHYLENE
35	AT-020126	Tritech	Lumi-FL	Propylene Gas Detector	Propylene Bullet Tank Dome -1	0-100% LEL
36	AT-020196	Tritech	Lumi-FL	Propylene Gas Detector	Propylene Bullet Tank Dome -2	0-100% LEL
37	AT-020195	Tritech	Lumi-FL	Propylene Gas Detector	Pump Area	0-100% LEL
38	AT-020127	Tritech	Lumi-FL	Propylene Gas Detector	Compressor Area	0-100% LEL
39	AT-020104	Tritech	Lumi-FL	Propylene Gas Detector	Tanker Unloading Area	0-100% LEL

# Annexure-8





# 4.0 WATER QUALITY MONITORING REPORT



**Period: March - 2025**

**FOR**

**M/s. Aarti Industries Limited.  
(NEO SEZ Unit)**

**At**

**Plot No. Z/103/H,  
Dahej SEZ-II Tal. Vagara,  
Dahej, Gujarat 392130  
Dist. Bharuch, Gujarat, India.**

 **UniStar**  **Monitoring Organization**  
Environment and Research Labs Pvt. Ltd.

Plot No.51, Vibrant Business Park,  
NH No.48, GIDC, Vapi-396195  
Dist-Valsad (Gujarat), India  
Phone + 91 260 2433966/2425610  
Email : response@uerl.in Website : www.uerl.in

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### TEST REPORT

ULR No.	----	Report No.	URC/25/03/L-0344
Name & Address of Customer	M/s. AARTI INDUSTRIES LTD. (UNIT-I NEO) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date of Report	12/03/2025
		Customer's Ref.	--
Sample Details	STP Outlet Water Sample	Location	--
Sample Qty.	2 Lit.	Appearance	Colorless
Sampling Date	07/03/2025	Sample Received Date	08/03/2025
Test Started Date	08/03/2025	Test Completion Date	11/03/2025
Sampled By	UERL Lab.	Sampling Method	--
UERL Lab ID. No.	25/03/L-0344		

#### TEST RESULTS:

DISCIPLINE: Chemical Testing		NAME OF GROUP: Pollution & Environment			
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (G.P.C.B.)	Unit of Measurement	Results
<b>PHYSIO-CHEMICAL PARAMETERS:</b>					
1.	pH @ 25 ° C	IS 3025(Part 11):2022	--	--	7.46
2.	Total Suspended Solids	APHA 24th Ed., 2023,2540 -D	<30	mg/L	4
<b>GENERAL CHEMICAL PARAMETERS:</b>					
3.	Chemical Oxygen Demand (COD)	IS 3025 (Part 58):2023	--	mg/L	12.4
4.	Biochemical Oxygen Demand (BOD) (3 days at 27°C)	IS 3025(Part 44):2023	<20	mg/L	3
5.	Residual Free Chlorine	APHA 24th Ed.,2023 4500-Cl, G	0.5 (min.)	mg/L	3.2
<b>Note:</b> BDL = Below Detection Limit, MDL = Minimum Detection Limit.					
<b>Remarks:</b> ---					
<b>Opinion &amp; Interpretation (If required):</b> --					

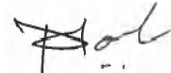
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nilesh C. Patel**  
(Sr. Chemist)

Authorized By:



**Nitin B. Tandel**  
(Technical Manager)



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### TEST REPORT

ULR No.	----	Report No.	URC/25/03/L-0515
Name & Address of Customer	M/s. AARTI INDUSTRIES LTD. (UNIT-I NEO) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date of Report	17/03/2025
		Customer's Ref.	--
Sample Details	STP Outlet Water Sample	Location	--
Sample Qty.	2 Lit.	Appearance	Colorless
Sampling Date	11/03/2025	Sample Received Date	12/03/2025
Test Started Date	12/03/2025	Test Completion Date	15/03/2025
Sampled By	UERL Lab.	Sampling Method	--
UERL Lab ID. No.	25/03/L-0515		

#### TEST RESULTS:

DISCIPLINE: Chemical Testing		NAME OF GROUP: Pollution & Environment			
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (G.P.C.B.)	Unit of Measurement	Results
<b>PHYSIO-CHEMICAL PARAMETERS:</b>					
1.	pH @ 25 ° C	IS 3025(Part 11):2022	--	--	6.81
2.	Total Suspended Solids	APHA 24th Ed., 2023,2540 -D	<30	mg/L	BDL(MDL:4.0)
<b>GENERAL CHEMICAL PARAMETERS:</b>					
3.	Chemical Oxygen Demand (COD)	IS 3025 (Part 58):2023	--	mg/L	20.8
4.	Biochemical Oxygen Demand (BOD) (3 days at 27°C)	IS 3025(Part 44):2023	<20	mg/L	6
5.	Residual Free Chlorine	APHA 24th Ed.,2023 4500-Cl, G	0.5 (min.)	mg/L	1.6
<b>Note:</b> BDL = Below Detection Limit, MDL = Minimum Detection Limit.					
<b>Remarks:</b> ---					
<b>Opinion &amp; Interpretation (If required):</b> --					

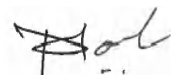
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nilesh C. Patel**  
(Sr. Chemist)

Authorized By:



**Nitin B. Tandel**  
(Technical Manager)

### TEST REPORT

ULR No.	----	Report No.	URC/25/03/L-0767
Name & Address of Customer	M/s. AARTI INDUSTRIES LTD. (UNIT-I NEO) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date of Report	25/03/2025
		Customer's Ref.	--
Sample Details	STP Outlet Water Sample	Location	--
Sample Qty.	2 Lit.	Appearance	Colorless
Sampling Date	19/03/2025	Sample Received Date	20/03/2025
Test Started Date	20/03/2025	Test Completion Date	24/03/2025
Sampled By	UERL Lab.	Sampling Method	--
UERL Lab ID. No.	25/03/L-0767		

#### TEST RESULTS:

DISCIPLINE: Chemical Testing		NAME OF GROUP: Pollution & Environment			
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (G.P.C.B.)	Unit of Measurement	Results
<b>PHYSIO-CHEMICAL PARAMETERS:</b>					
1.	pH @ 25 ° C	IS 3025(Part 11):2022	--	--	7.11
2.	Total Suspended Solids	APHA 24th Ed., 2023,2540 -D	<30	mg/L	4
<b>GENERAL CHEMICAL PARAMETERS:</b>					
3.	Chemical Oxygen Demand (COD)	IS 3025 (Part 58):2023	--	mg/L	52.2
4.	Biochemical Oxygen Demand (BOD) (3 days at 27°C)	IS 3025(Part 44):2023	<20	mg/L	18
5.	Residual Free Chlorine	APHA 24th Ed.,2023 4500-Cl, G	0.5 (min.)	mg/L	1.2
<b>Note:</b> BDL = Below Detection Limit, MDL = Minimum Detection Limit.					
<b>Remarks:</b> ---					
<b>Opinion &amp; Interpretation (If required):</b> --					

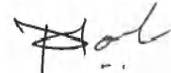
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nilesh C. Patel**  
(Sr. Chemist)

Authorized By:



**Nitin B. Tandel**  
(Technical Manager)



### TEST REPORT

ULR No.	----	Report No.	URC/25/03/L-0837
Name & Address of Customer	M/s. AARTI INDUSTRIES LTD. (UNIT-I NEO) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date of Report	29/03/2025
		Customer's Ref.	--
Sample Details	STP Inlet Water Sample	Location	--
Sample Qty.	2 Lit.	Appearance	Turbid
Sampling Date	21/03/2025	Sample Received Date	22/03/2025
Test Started Date	22/03/2025	Test Completion Date	25/03/2025
Sampled By	UERL Lab.	Sampling Method	--
UERL Lab ID. No.	25/03/L-0837		

#### TEST RESULTS:

DISCIPLINE: Chemical Testing		NAME OF GROUP: Pollution & Environment			
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (G.P.C.B.)	Unit of Measurement	Results
<b>PHYSIO-CHEMICAL PARAMETERS:</b>					
1.	pH @ 25 ° C	IS 3025(Part 11):2022	--	--	7.58
2.	Total Suspended Solids	APHA 24th Ed., 2023,2540 -D	--	mg/L	16
<b>GENERAL CHEMICAL PARAMETERS:</b>					
3.	Chemical Oxygen Demand (COD)	IS 3025 (Part 58):2023	--	mg/L	126.3
4.	Biochemical Oxygen Demand (BOD) (3 days at 27°C)	IS 3025(Part 44):2023	--	mg/L	36
5.	Residual Free Chlorine	APHA 24th Ed.,2023 4500-Cl, G	--	mg/L	BDL(MDL:0.1)
<b>Note:</b> BDL = Below Detection Limit, MDL = Minimum Detection Limit.					
<b>Remarks:</b> ---					
<b>Opinion &amp; Interpretation (If required):</b> --					

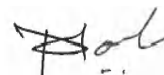
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nilesh C. Patel**  
(Sr. Chemist)

Authorized By:



**Nitin B. Tandel**  
(Technical Manager)

### TEST REPORT

ULR No.	----	Report No.	URC/25/03/L-0839
Name & Address of Customer	M/s. AARTI INDUSTRIES LTD. (UNIT-I NEO) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT	Date of Report	29/03/2025
		Customer's Ref.	--
Sample Details	STP Outlet Water Sample	Location	--
Sample Qty.	2 Lit.	Appearance	Colorless
Sampling Date	21/03/2025	Sample Received Date	22/03/2025
Test Started Date	22/03/2025	Test Completion Date	25/03/2025
Sampled By	UERL Lab.	Sampling Method	--
UERL Lab ID. No.	25/03/L-0839		

#### TEST RESULTS:

DISCIPLINE: Chemical Testing		NAME OF GROUP: Pollution & Environment			
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (G.P.C.B.)	Unit of Measurement	Results
<b>PHYSIO-CHEMICAL PARAMETERS:</b>					
1.	pH @ 25 ° C	IS 3025(Part 11):2022	--	--	7.48
2.	Total Suspended Solids	APHA 24th Ed.,2023,2540 -D	<30	mg/L	BDL(MDL:4.0)
<b>GENERAL CHEMICAL PARAMETERS:</b>					
3.	Chemical Oxygen Demand (COD)	IS 3025 (Part 58):2023	--	mg/L	20.3
4.	Biochemical Oxygen Demand (BOD) (3 days at 27°C)	IS 3025(Part 44):2023	<20	mg/L	6
5.	Residual Free Chlorine	APHA 24th Ed.,2023 4500-Cl, G	0.5 (min.)	mg/L	1.0
<b>Note:</b> BDL= Below Detection Limit, MDL = Minimum Detection Limit,					
<b>Remarks:</b> --					
<b>Opinion &amp; Interpretation (If required):</b> --					

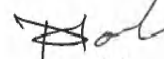
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nilesh C. Patel**  
(Sr. Chemist)

Authorized By:



**Nitin B. Tandel**  
(Technical Manager)

### TEST REPORT

ULR No.	----	Report No.	URC/25/03/L-1075
Name & Address of Customer	<b>M/s. AARTI INDUSTRIES LTD. (UNIT-I NEO)</b> PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date of Report	02/04/2025
		Customer's Ref.	--
Sample Details	<b>STP Outlet Water Sample</b>	Location	--
Sample Qty.	<b>2 Lit.</b>	Appearance	<b>Colorless</b>
Sampling Date	<b>28/03/2025</b>	Sample Received Date	<b>29/03/2025</b>
Test Started Date	<b>29/03/2025</b>	Test Completion Date	<b>01/04/2025</b>
Sampled By	<b>UERL Lab.</b>	Sampling Method	--
UERL Lab ID. No.	<b>25/03/L-1075</b>		

#### TEST RESULTS:

<b>DISCIPLINE: Chemical Testing</b>		<b>NAME OF GROUP: Pollution &amp; Environment</b>			
Sr. No.	Parameters	Test Method Permissible	Permissible Limits (G.P.C.B.)	Unit of Measurement	Results
<b>PHYSIO-CHEMICAL PARAMETERS:</b>					
1.	pH @ 25 °C	IS 3025(Part 11):2022	--	--	7.36
2.	Total Suspended Solids	APHA 24th Ed., 2023,2540 -D	<b>&lt;30</b>	mg/L	BDL(MDL:4.0)
<b>GENERAL CHEMICAL PARAMETERS:</b>					
3.	Chemical Oxygen Demand (COD)	IS 3025 (Part 58):2023	--	mg/L	16.1
4.	Biochemical Oxygen Demand (BOD) (3 days at 27°C)	IS 3025(Part 44):2023	<b>&lt;20</b>	mg/L	5
5.	Residual Free Chlorine	APHA 24th Ed.,2023 4500-Cl, G	<b>0.5 (min.)</b>	mg/L	1.2
<b>Note: BDL = Below Detection Limit, MDL = Minimum Detection Limit.</b>					
<b>Remarks: ---</b>					
<b>Opinion &amp; Interpretation (If required): --</b>					

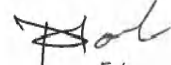
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nilesh C. Patel**  
(Sr. Chemist)

Authorized By:



**Nitin B. Tandel**  
(Technical Manager)

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**TEST REPORT**  
**(Microbiology)**

ULR No.	: --	Report No.	: URB/25/03/L-0345
Name & Address of Customer	: M/s. Aarti Industries Limited. (Unit-1 Neo Plant) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date Of Report	: 15/03/2025
		Customer's Ref.	: --
Sample Details	: STP Outlet Water Sample	Location	: --
Sample Qty.	: 500ml	Appearance	: Colourless
Sampling Date	: 07/03/2025	Sample Receipt Date	: 08/03/2025
Test Start Date	: 08/03/2025	Test Completion Date	: 15/03/2025
Sampled By	: UNISTAR-LAB.	Sampling Method	: --
UERL Lab ID. No.	: 25/03/L-0345		

**TEST RESULTS:**

DISCIPLINE : Biological Testing			GROUP: Pollution and Environment	
Sr. No.	Test Parameter	Test Method	Unit of Measurement	Results
1	Fecal Coliform	IS 1622:1981	MPN Index/100ml	<2

Remarks: --

Opinions and Interpretations: (if required)

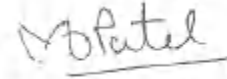
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By



Ayushi Rathod  
(Microbiologist)

Authorized By



Meera D. Patel  
(Sr. Microbiologist)

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**TEST REPORT**  
**(Microbiology)**

ULR No.	: --	Report No.	: URB/25/03/L-0516
Name & Address of Customer	: M/s. Aarti Industries Limited. (Unit-1 Neo Plant) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date Of Report	: 17/03/2025
		Customer's Ref.	: --
Sample Details	: STP Outlet Water Sample	Location	: --
Sample Qty.	: 500ml	Appearance	: Colourless
Sampling Date	: 11/03/2025	Sample Receipt Date	: 12/03/2025
Test Start Date	: 12/03/2025	Test Completion Date	: 17/03/2025
Sampled By	: UNISTAR-LAB.	Sampling Method	: --
UERL Lab ID. No.	: 25/03/L-0516		

**TEST RESULTS:**

DISCIPLINE : Biological Testing			GROUP: Pollution and Environment	
Sr. No.	Test Parameter	Test Method	Unit of Measurement	Results
1	Fecal Coliform	IS 1622:1981	MPN Index/100ml	<2

Remarks: --

Opinions and Interpretations: (if required)

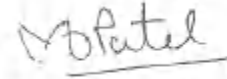
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By



Ayushi Rathod  
(Microbiologist)

Authorized By



Meera D. Patel  
(Sr. Microbiologist)



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**TEST REPORT**  
**(Microbiology)**

ULR No.	: --	Report No.	: URB/25/03/L-0768
Name & Address of Customer	: M/s. Aarti Industries Limited. (Unit-1 Neo Plant) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date Of Report	: 26/03/2025
		Customer's Ref.	: --
Sample Details	: STP Outlet Water Sample	Location	: --
Sample Qty.	: 500ml	Appearance	: Colourless
Sampling Date	: 19/03/2025	Sample Receipt Date	: 20/03/2025
Test Start Date	: 20/03/2025	Test Completion Date	: 26/03/2025
Sampled By	: UNISTAR-LAB.	Sampling Method	: --
UERL Lab ID. No.	: 25/03/L-0768		

**TEST RESULTS:**

DISCIPLINE : Biological Testing			GROUP: Pollution and Environment	
Sr. No.	Test Parameter	Test Method	Unit of Measurement	Results
1	Fecal Coliform	IS 1622:1981	MPN Index/100ml	<2

Remarks: --

Opinions and Interpretations: (if required)

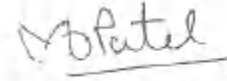
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By



Ayushi Rathod  
(Microbiologist)

Authorized By



Meera D. Patel  
(Sr. Microbiologist)

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**TEST REPORT**  
**(Microbiology)**

ULR No.	: --	Report No.	: URB/25/03/L-0838
Name & Address of Customer	: M/s. Aarti Industries Limited. (Unit-1 Neo Plant) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date Of Report	: 27/03/2025
		Customer's Ref.	: --
Sample Details	: STP Inlet Water Sample	Location	: --
Sample Qty.	: 500ml	Appearance	: Turbid
Sampling Date	: 21/03/2025	Sample Receipt Date	: 22/03/2025
Test Start Date	: 22/03/2025	Test Completion Date	: 27/03/2025
Sampled By	: UNISTAR-LAB.	Sampling Method	: --
UERL Lab ID. No.	: 25/03/L-0838		

**TEST RESULTS:**

DISCIPLINE : Biological Testing			GROUP: Pollution and Environment	
Sr. No.	Test Parameter	Test Method	Unit of Measurement	Results
1	Fecal Coliform	IS 1622:1981	MPN Index/100ml	100

Remarks: --

Opinions and Interpretations: (if required)

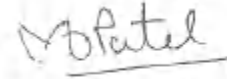
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By



Ayushi Rathod  
(Microbiologist)

Authorized By



Meera D. Patel  
(Sr. Microbiologist)

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**TEST REPORT**  
**(Microbiology)**

ULR No.	: --	Report No.	: URB/25/03/L-0840
Name & Address of Customer	: M/s. Aarti Industries Limited. (Unit-1 Neo Plant) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date Of Report	: 27/03/2025
		Customer's Ref.	: --
Sample Details	: STP Outlet Water Sample	Location	: --
Sample Qty.	: 500ml	Appearance	: Colourless
Sampling Date	: 21/03/2025	Sample Receipt Date	: 22/03/2025
Test Start Date	: 22/03/2025	Test Completion Date	: 27/03/2025
Sampled By	: UNISTAR-LAB.	Sampling Method	: --
UERL Lab ID. No.	: 25/03/L-0840		

**TEST RESULTS:**

DISCIPLINE : Biological Testing			GROUP: Pollution and Environment	
Sr. No.	Test Parameter	Test Method	Unit of Measurement	Results
1	Fecal Coliform	IS 1622:1981	MPN Index/100ml	<2

Remarks: --

Opinions and Interpretations: (if required)

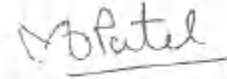
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By



Ayushi Rathod  
(Microbiologist)

Authorized By



Meera D. Patel  
(Sr. Microbiologist)



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ISO 45001 : 2018  
Certified Company

**TEST REPORT**  
**(Microbiology)**

ULR No.	: --	Report No.	: URB/25/03/L-1076
Name & Address of Customer	M/s. Aarti Industries Limited. (Unit-1 Neo Plant) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT	Date Of Report	: 04/04/2025
		Customer's Ref.	: --
Sample Details	: STP Outlet Water Sample	Location	: --
Sample Qty.	: 500ml	Appearance	: Colourless
Sampling Date	: 28/03/2025	Sample Receipt Date	: 29/03/2025
Test Start Date	: 29/03/2025	Test Completion Date	: 04/04/2025
Sampled By	: UNISTAR-LAB.	Sampling Method	: --
UERL Lab ID. No.	: 25/03/L-1076		

**TEST RESULTS:**

DISCIPLINE : Biological Testing			GROUP: Pollution and Environment	
Sr. No.	Test Parameter	Test Method	Unit of Measurement	Results
1	Fecal Coliform	IS 1622:1981	MPN Index/100ml	<2

Remarks: --

Opinions and Interpretations: (if required)

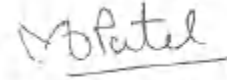
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By



Ayushi Rathod  
(Microbiologist)

Authorized By



Meera D. Patel  
(Sr. Microbiologist)

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Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

### TEST REPORT (Microbiology)

ULR No.	: --	Report No.	: URB/25/03/L-196
Name & Address of Customer	M/s. ARTI INDUSTRIES LIMITED. (UNIT-1 NEO PLANT) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date Of Report	: 27/03/2025
		Customer's Ref.	: --
Sample Details	: Toxicity Test (Bioassay Test) of CT Makeup Water Sample	Location	: --
Sample Qty.	: 10 Lit.	Appearance	: Colourless
Sampling Date	: 21/03/2025	Sample Receipt Date	: 21/03/2025
Test Start Date	: 22/03/2025	Test Completion Date	: 26/03/2025
Sampled By	: UERL-Lab.	Sampling Method	: --
Test Organism	: <i>Brachydanyo rerio</i> (Zebra Fish) (Adult Fish)		
UERL Lab ID. No.	: UERL-D/25/03/L-196		

### TOXICITY TEST (BIO ASSAY TEST) REPORT

Dilution Ratio	No. of fishes in the tank	Mortality Count					% Survival
		At 2 Hrs	At 6 Hrs	At 24 Hrs	At 48 Hrs	At 96 Hrs	
CONTROL	05	0	0	0	0	0	100
1:1 (100 %)	05	0	0	0	0	1	90
1:2 (50 %)	05	0	0	0	0	0	100
1:4 (25 %)	05	0	0	0	0	0	100

Control = Test Water Used for Dilution.

Dilution Ratio = Wastewater: Dilution Water (By Volume)

#### Data Analysis and conclusion:

All fishes survived in the dilution water (control) during the test under standard test condition as per the standard IS 6582 (Part 1): 1971 (Reaffirmed 2019).

Result: 90% of test organism survived exposed to 100% effluent After 96hr.

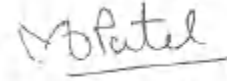
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By



Ayushi Rathod  
(Microbiologist)

Authorized By



Meera D. Patel  
(Sr. Microbiologist)

**TEST REPORT**  
**STACK MONITORING**

Test Report No.	UERL/24/10/AIL-1/S-005	Report Issue Date	05/11/2024
Service Request form No.	UERL/AIR/D/SRF/10/S-005	Service Request Date	21/10/2024
Sample ID No.	UERL/AIR/D/ID/S-24/10/005	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/10/005
Name & Address of Industries	<b>M/s. AARTI INDUSTRIES LTD. (Unit – 1)</b> Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	21/10/2024	Date of Testing	22/10/2024
Stack Sampling Attached to	<b>Scrubber Attached to Hydrolysis Process</b>		
Fuel Used	--		
Air Pollution Control Device	<b>Caustic Scrubber</b>		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No	UERL-D/AIR/HDS/01		
Instrument Name	<b>Handy Sampler</b>	Serial Number	<b>91-I-19</b>
Calibration Date	<b>02/02/2024</b>	Next Calibration Due On	<b>01/02/2025</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	31

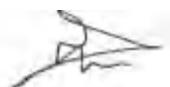
➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Hydrochloric Acid as HCl	mg/Nm <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	Argentometric Method
2.	VOCS	PPM	2.4	<b>**</b>	GC Method

**Note:** BDL: Below Detection Limit.


\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

# 2.0 STACK MONITORING REPORT



**Period: November - 2024**

**FOR**

**M/s. Aarti Industries Limited. (Unit – 1)  
(Neo SEZ Unit)**

**At**

**Plot No. Z/103/H, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195. Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : response@uerl.in Website : www.uerl.in

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-11)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**TEST REPORT**  
**STACK MONITORING**

Test Report No.	UERL/24/11/AIL-1/S-006	Report Issue Date	05/12/2024
Service Request form No.	UERL/AIR/D/SRF/11/S-006	Service Request Date	28/11/2024
Sample ID No.	UERL/AIR/D/ID/S-24/11/006	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/11/006
Name & Address of Industries	<b>M/s. AARTI INDUSTRIES LTD. (Unit – 1)</b> Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	28/11/2024	Date of Testing	29/11/2024
Stack Sampling Attached to	<b>Boiler-2 (67 TPH)</b>		
Air Pollution Control Device	ESP + Lime Dosing with Coal.		
Fuel Used	<b>Coal</b>		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	<b>UERL-D/AIR/SMK/01</b>		
Instrument Name	<b>Stack Monitoring Kit, VSS1</b>	Serial Number	<b>467 DTJ 15</b>
Calibration Date	<b>19/06/2024</b>	Next Calibration Due On	<b>18/06/2025</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	M	76
2.	Stack Dia	Mm	3600
3.	Stack Area	m <sup>2</sup>	10.1736
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	124
6.	Exit Gas Velocity	m/s	1.8
7.	Exit Gas Flow	m <sup>3</sup> /h	48670.3

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	28	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	77	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	37	<b>50</b>	IS 11255(Part 7)
4.	VOCs	ppm	2.7	<b>**</b>	GC Method

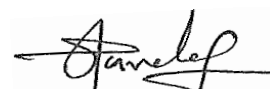
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**STACK MONITORING**

Test Report No.	UERL/24/11/AIL-1/S-001	Report Issue Date	05/12/2024
Service Request form No.	UERL/AIR/D/SRF/11/S-001	Service Request Date	28/11/2024
Sample ID No.	UERL/AIR/D/ID/S-24/11/001	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/11/001
Name & Address of Industries	<b>M/s. AARTI INDUSTRIES LTD. (Unit – 1)</b> Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	28/11/2024	Date of Testing	29/11/2024
Stack Sampling Attached to	<b>Boiler-1 (14 TPH) &amp; Thermic Fluid Heater (6 Lac Kcal/Hr) (Common Chimney)</b>		
Air Pollution Control Device	<b>ESP + Lime Dosing with Coal</b>		
Fuel Used	<b>Coal</b>		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	19/06/2024	Next Calibration Due On	18/06/2025

➤ **General Stack Monitoring Observation**


Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	42
2.	Stack Dia	mm	1200
3.	Stack Area	m <sup>2</sup>	1.1314
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	132
6.	Exit Gas Velocity	m/s	7.1
7.	Exit Gas Flow	m <sup>3</sup> /h	20928.0

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	16	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	19	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	34	50	IS 11255(Part 7)
4.	VOCs	ppm	2.6	**	GC Method

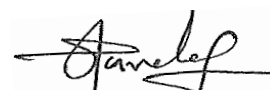
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT**  
**STACK MONITORING**

Test Report No.	UERL/24/11/AIL-1/S-002	Report Issue Date	05/12/2024
Service Request form No.	UERL/AIR/D/SRF/11/S-002	Service Request Date	28/11/2024
Sample ID No.	UERL/AIR/D/ID/S-24/11/002	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/11/002
Name & Address of Industries	<b>M/s. AARTI INDUSTRIES LTD. (Unit – 1)</b> Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	28/11/2024	Date of Testing	29/11/2024
Stack Sampling Attached to	<b>D.G. Set - 1 (1000 KVA)</b>		
Fuel Used	Diesel		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	<b>UERL-D/AIR/SMK/01</b>		
Instrument Name	<b>Stack Monitoring Kit, VSS1</b>	Serial Number	<b>467 DTJ 15</b>
Calibration Date	<b>19/06/2024</b>	Next Calibration Due On	<b>18/06/2025</b>

➤ **General Stack Monitoring Observation**

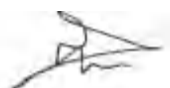
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	10.7
7.	Exit Gas Flow	Nm <sup>3</sup> /h	1463.9

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	71	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	18	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	36	<b>50</b>	IS 11255(Part 7)
4.	VOCs	ppm	2.4	<b>**</b>	GC Method

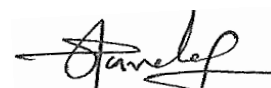
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT**  
**STACK MONITORING**

Test Report No.	UERL/24/11/AIL-1/S-003	Report Issue Date	05/12/2024
Service Request form No.	UERL/AIR/D/SRF/11/S-003	Service Request Date	28/11/2024
Sample ID No.	UERL/AIR/D/ID/S-24/11/003	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/11/003
Name & Address of Industries	<b>M/s. AARTI INDUSTRIES LTD. (Unit – 1)</b> Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	28/11/2024	Date of Testing	29/11/2024
Stack Sampling Attached to	<b>D.G. Set – 2 (1000 KVA)</b>		
Fuel Used	Diesel		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	<b>UERL-D/AIR/SMK/01</b>		
Instrument Name	<b>Stack Monitoring Kit, VSS1</b>	Serial Number	<b>467 DTJ 15</b>
Calibration Date	<b>19/06/2024</b>	Next Calibration Due On	<b>18/06/2025</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	121
6.	Exit Gas Velocity	m/s	11.2
7.	Exit Gas Flow	Nm <sup>3</sup> /h	1520.7

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	67	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	15	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	33	<b>50</b>	IS 11255(Part 7)
4.	VOCs	ppm	2.1	<b>**</b>	GC Method

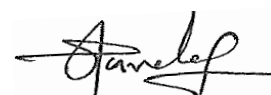
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**STACK MONITORING**

Test Report No.	UERL/24/11/AIL-1/S-004	Report Issue Date	05/12/2024
Service Request form No.	UERL/AIR/D/SRF/11/S-004	Service Request Date	28/11/2024
Sample ID No.	UERL/AIR/D/ID/S-24/11/004	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/11/004
Name & Address of Industries	<b>M/s. AARTI INDUSTRIES LTD. (Unit – 1)</b> Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	28/11/2024	Date of Testing	29/11/2024
Stack Sampling Attached to	<b>D.G. Set – 3 (1500 KVA)</b>		
Fuel Used	Diesel		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	<b>UERL-D/AIR/SMK/01</b>		
Instrument Name	<b>Stack Monitoring Kit, VSS1</b>	Serial Number	<b>467 DTJ 15</b>
Calibration Date	<b>19/06/2024</b>	Next Calibration Due On	<b>18/06/2025</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	124
6.	Exit Gas Velocity	m/s	10.8
7.	Exit Gas Flow	Nm <sup>3</sup> /h	1455.3

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	69	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	21	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	39	<b>50</b>	IS 11255(Part 7)
4.	VOCs	ppm	2.6	<b>**</b>	GC Method

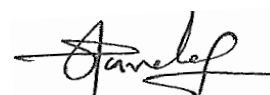
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**STACK MONITORING**

Test Report No.	UERL/24/11/AIL-1/S-005	Report Issue Date	05/12/2024
Service Request form No.	UERL/AIR/D/SRF/11/S-005	Service Request Date	28/11/2024
Sample ID No.	UERL/AIR/D/ID/S-24/11/005	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/11/005
Name & Address of Industries	<b>M/s. AARTI INDUSTRIES LTD. (Unit – 1)</b> Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	28/11/2024	Date of Testing	29/11/2024
Stack Sampling Attached to	<b>Scrubber Attached to Hydrolysis Process</b>		
Fuel Used	--		
Air Pollution Control Device	<b>Caustic Scrubber</b>		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No	UERL-D/AIR/HDS/01		
Instrument Name	<b>Handy Sampler</b>	Serial Number	<b>91-I-19</b>
Calibration Date	<b>02/02/2024</b>	Next Calibration Due On	<b>01/02/2025</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	30

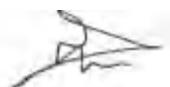
➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Hydrochloric Acid as HCl	mg/Nm <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	Argentometric Method
2.	VOCS	PPM	2.4	<b>**</b>	GC Method

**Note:** BDL: Below Detection Limit.


\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)